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Distribution of Phytoplankton in Florida Lakes

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September 1978

DISTRIBUTION OF PHYTOPLANKTON IN FLORIDA LAKES

by

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FOREWORD

Protection of the environment requires effective regulatory actions which are based on sound technical and scientific information. This information must include the quantitative description and linking of pollutant sources, transport mechanisms, interactions, and resulting effects on man and his environment. Because of the complexities involved, assessment of specific pollutants in the environment requires a total systems approach which transcends the media of air, water, and land. The Environmental Monitoring and Support Laboratory-Las Vegas contributes to the formation and enhancement of a sound monitoring data base for exposure assessment through programs designed to:

- develop and optimize systems and strategies for monitoring pollutants and their impact on the environment
- demonstrate new monitoring systems and technologies by applying them to fulfill special monitoring needs of the Agency's operating programs

This report presents the species and abundance of phytoplankton in the 40 lakes sampled by the National Eutrophication Survey in the State of Florida, along with results from the calculation of several commonly used biological indices of water quality and community structure. These data can be used to biologically characterize the study lakes, and as baseline data for future investigations. This report was written for use by Federal, State, and local governmental agencies concerned with water quality analysis, monitoring, and/or regulation. Private industry and individuals similarly involved with the biological aspects of water quality will find the document useful. For further information contact the Water and Land Quality Branch, Monitoring Operations Division.

George B. Morgan
Director
Environmental Monitoring and Support Laboratory
Las Vegas

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16. ABSTRACT

This is a data report presenting the species and abundance of phytoplankton in the 40 lakes sampled by the National Eutrophication Survey in the State of Florida. Results from the calculation of several water quality indices are also included (Nygaard's Trophic State Index, Palmer's Organic Pollution Index, and species diversity and abundance indices).

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INTRODUCTION

The collection and analysis of phytoplankton data were included in the National Eutrophication Survey in an effort to determine relationships between algal characteristics and trophic status of individual lakes.

During spring, summer, and fall of 1973, the Survey sampled 250 lakes in 17 States. Over 700 algal species and varieties were identified and enumerated from the 743 water samples examined.

This report presents the species and abundance of phytoplankton in the 40 lakes sampled in the State of Florida (Table 1). The Nygaard's Trophic State (Nygaard 1949), Palmer's Organic Pollution (Palmer 1969), and species diversity and abundance indices are also included.

TABLE 1. LAKES SAMPLED IN THE STATE OF FLORIDA

STORET #	LAKE NAME	COUNTY
1201	Alligator Lake	Columbia
1202	Lake Apopka	Orange, Lake
1203	Banana Lake	Polk
1206	Lake Crescent	Putnam, Flagler, Volusia
1207	Doctors Lake	Clay
1208	Lake Dora	Lake
1209	Lake Effie	Polk
1210	Lake George	Volusia
1211	Lake Gibson	Polk
1212	Glenada Lake	Highlands
1214	Lake Griffin	Lake
1215	Lake Haines	Polk
1217	Lake Hancock	Polk
1219	Lake Horseshoe	Seminole

(Continued)

TABLE 1. LAKES SAMPLED IN THE STATE OF FLORIDA (Continued)

STORET #	LAKE NAME	COUNTY
1220	Lake Howell	Seminole, Orange
1221	Lake Istokpoga	Highlands
1223	Lake Jessup	Seminole
1224	Lake Kissimmee	Osceola
1227	Lake Lulu	Polk
1228	Lake Marion	Polk
1229	Lake Minnehaha	Orange
1230	Lake Minneola	Lake
1231	Lake Monroe	Seminole, Volusia
1232	Lake Okeechobee	Okeechobee, Glades, Palm Beach, Martin, Hendry
1234	Lake Poinsett	Brevard, Osceola, Orange
1236	Lake Reedy	Polk
1238	Lake South	Brevard
1239	Lake Talquin	Gadsden, Leon
1240	Lake Thonotossassa	Hillsborough
1241	Lake Tohopekaliga	Osceola
1242	Trout Lake	Lake
1243	Lake Weohyakapka	Polk
1246	Lake Yale	Lake
1247	Lake Munson	Leon
1248	Lake Seminole	Pinellas
1249	Lake Lawne	Orange

(Continued)

TABLE 1. LAKES SAMPLED IN THE STATE OF FLORIDA (Continued)

STORET #	LAKE NAME	COUNTY
1250	Lake Tarpon	Pinellas
1252	Lake Eloise	Polk
1258	Lake Jessie	Polk
1261	East Lake Tohopekaliga	Osceola

MATERIALS AND METHODS

LAKE AND SITE SELECTION

Lakes and reservoirs included in the Survey were selected through discussions with State water pollution agency personnel and U.S. Environmental Protection Agency Regional Offices (U.S. Environmental Protection Agency 1975). Screening and selection strongly emphasized lakes with actual or potential accelerated eutrophication problems. As a result, the selection was limited to lakes:

(1) impacted by one or more municipal sewage treatment plant outfalls either directly into the lake or by discharge to an inlet tributary within approximately 40 kilometers of the lake;

(2) 40 hectares or larger in size; and

(3) with a mean hydraulic retention time of at least 30 days.

Specific selection criteria were waived for some lakes of particular State interest.

Sampling sites for a lake were selected based on available information on lake morphometry, potential major sources of nutrient input, and on-site judgment of the field limnologist (U.S. Environmental Protection Agency 1975). Primary sampling sites were chosen to reflect the deepest portion of each major basin in a test lake. Where many basins were present, selection was guided by nutrient source information on hand. At each sampling site, a depth-integrated phytoplankton sample was taken. Depth-integrated samples were uniform mixtures of water from the surface to a depth of 15 feet (4.6 meters) or from the surface to the lower limit of the photic zone representing 1 percent of the incident light, whichever was greater. If the depth at the sampling site was less than 15 feet (4.6 meters), the sample was taken from just off the bottom to the surface. Normally, a lake was sampled three times in 1 year, providing information on spring, summer, and fall conditions.

SAMPLE PREPARATION

To preserve the sample 4 milliliters (ml) of Acid-Lugol's solution (Prescott 1970) were added to each 130-ml sample from each site at the time of collection. The samples were shipped to the Environmental Monitoring and Support Laboratory, Las Vegas, Nevada, where equal volumes from each site were mixed to form two 130-ml composite samples for a given lake. One composite sample was put into storage and the other was used for the examination.

Prior to examination, the composite samples were concentrated by the settling method. Solids were allowed to settle for at least 24 hours prior to siphoning off the supernate. The volume of the removed supernate and the volume of the remaining concentrate were measured and concentrations determined. A small (8-ml) library subsample of the concentrate was then taken. The remaining concentrate was gently agitated to resuspend the plankton and poured into a capped, graduated test tube. If a preliminary examination of a sample indicated the need for a more concentrated sample, the contents of the test tube were further concentrated by repeating the settling method. Final concentrations varied from 15 to 40 times the original.

Permanent slides were prepared from concentrated samples after analysis was complete. A drop of superconcentrate from the bottom of the test tube was placed in a ring of clear Karo® Corn Syrup with phenol (a few crystals of phenol were added to each 100 ml of syrup) on a glass slide, thoroughly mixed, and topped with a coverglass. After the syrup at the edges of the coverglass had hardened, the excess was scraped away and the mount was sealed with clear fingernail polish. Permanent diatom slides were prepared by drying sample material on a coverglass, heating in a muffle furnace at 400° C for 45 minutes, and mounting in Hyrax®. Finally, the mounts were sealed with clear fingernail polish.

Backup samples, library samples, permanent sample slides, and Hyrax®-mounted diatom slides are being stored and maintained at the Environmental Monitoring and Support Laboratory-Las Vegas.

EXAMINATION

The phytoplankton samples were examined with the aid of binocular compound microscopes. A preliminary examination was performed to precisely identify and list all forms encountered. The length of this examination varied depending on the complexity of the sample. An attempt was made to find and identify all of the forms present in each sample. Often forms were observed which could not be identified to species or to genus. Abbreviated descriptions were used to keep a record of these forms (e.g., lunate cell, blue-green filament, Navicula #1). Diatom slides were examined using a standard light microscope. If greater resolution were essential to accurately identify the diatoms, a phase-contrast microscope was used.

After the species list was compiled, phytoplankton were enumerated using a Neubauer Counting Chamber with a 40X objective lens and a 10X ocular lens. All forms within each field were counted. The count was continued until a minimum of 100 fields had been viewed, or until the dominant form had been observed a minimum of 100 times.

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QUALITY CONTROL

Internal quality control intercomparisons on species identifications and counts were performed on a regular basis among project phycologists at the rate of 7 percent. Although an individual had primary responsibility for analyzing a sample, taxonomic problems were discussed among the phycologists.

Additional quality control checks were performed on the Survey samples by Dr. G. W. Prescott of the University of Montana at the rate of 5 percent. Quality control checks were made on 75 percent of these samples to verify species identifications while checks were made on the remaining 25 percent of the samples to verify genus counts. Presently, the agreement between quality control checks for species identification and genus enumerations is satisfactory.

RESULTS

The Appendix summarizes all of the phytoplankton data collected from the State by the Survey. It is organized by lake, including an alphabetical phytoplankton species list with concentrations for individual species given by sampling date. Results from the application of several indices are presented (Nygaard's Trophic State, Palmer's Organic Pollution, and species diversity and abundance). Each lake has been assigned a four-digit STORET number. [STORET (STOrage and RETrieval) is the U.S. Environmental Protection Agency's computer system which processes and maintains water quality data.] The first two digits of the STORET number identify the State; the last two digits identify the lake.

NYGAARD'S TROPHIC STATE INDICES

Five indices devised by Nygaard (1949) were proposed under the assumption that certain algal groups are indicative of levels of nutrient enrichment. These indices were calculated in order to aid in determining the surveyed lakes' trophic status. As a general rule, Cyanophyta, Euglenophyta, centric diatoms, and members of the Chlorococcales are found in waters that are eutrophic (rich in nutrients), while desmids and many pennate diatoms generally cannot tolerate high nutrient levels and so are found in oligotrophic waters (poor in nutrients).

In applying the indices to the Survey data, the number of taxa in each major group was determined from the species list for each sample. The ratios of these groups give numerical values which can be used as a biological index of water richness. The five indices and the ranges of values established for Danish lakes by Nygaard for each trophic state are presented in Table 2. The appropriate symbol, (E) eutrophic and (O) oligotrophic, follows each calculated value in the tables in the Appendix. A question mark (?) following a calculated value in these tables was entered when that value was within the range of both classifications.

PALMER'S ORGANIC POLLUTION INDICES

Palmer (1969) analyzed reports from 165 authors and developed algal pollution indices for use in rating water samples with high organic pollution. Two lists of organic-pollution-tolerant forms were prepared, one containing 20 genera, the other, 20 species (Tables 3 and 4). Each form was assigned a pollution index number ranging from 1 for moderately tolerant forms to 6 for extremely tolerant forms. Palmer based the index numbers on occurrence records and/or where emphasized by the authors as being especially tolerant of organic pollution.

TABLE 2. NYGAARD'S TROPHIC STATE INDICES ADAPTED FROM HUTCHINSON (1967)

Index	Calculation	Oligotrophic	Eutrophic
Myxophycean	$\frac{\text{Myxophyceae}}{\text{Desmideae}}$	0.0-0.4	0.1-3.0
Chlorophycean	$\frac{\text{Chlorococcales}}{\text{Desmideae}}$	0.0-0.7	0.2-9.0
Diatom	$\frac{\text{Centric Diatoms}}{\text{Pennate Diatoms}}$	0.0-0.3	0.0-1.75
Euglenophyte	$\frac{\text{Euglenophyta}}{\text{Myxophyceae + Chlorococcales}}$	0.0-0.2	0.0-1.0
Compound	$\frac{\text{Myxophyceae + Chlorococcales + Centric Diatoms + Euglenophyta}}{\text{Desmideae}}$	0.0-1.0	1.2-25

TABLE 3. ALGAL GENUS POLLUTION INDEX (Palmer 1969)

Genus	Pollution Index
Anacystis	1
Ankistrodesmus	2
Chlamydomonas	4
Chlorella	3
Closterium	1
Cyclotella	1
Euglena	5
Gomphonema	1
Lepocinclis	1
Melosira	1
Micractinium	1
Navicula	3
Nitzschia	3
Oscillatoria	5
Pandorina	1
Phacus	2
Phormidium	1
Scenedesmus	4
Stigeoclonium	2
Synedra	2

TABLE 4. ALGAL SPECIES POLLUTION INDEX (Palmer 1969)

Species	Pollution Index
Ankistrodesmus falcatus	3
Arthrospira jenneri	2
Chlorella vulgaris	2
Cyclotella meneghiniana	2
Euglena gracilis	1
Euglena viridis	6
Gomphonema parvulum	1
Melosira varians	2
Navicula cryptocephala	1
Nitzschia acicularis	1
Nitzschia palea	5
Oscillatoria chlorina	2
Oscillatoria limosa	4
Oscillatoria princeps	1
Oscillatoria putrida	1
Oscillatoria tenuis	4
Pandorina morum	3
Scenedesmus quadricauda	4
Stigeoclonium tenue	3
Syndra ulna	3

In analyzing a water sample, any of the 20 genera or species of algae present in concentrations of 50 per milliliter or more are recorded. The pollution index numbers of the algae present are totaled, providing a genus score and a species score. Palmer determined that a score of 20 or more for either index can be taken as evidence of high organic pollution, while a score of 15 to 19 is taken as probable evidence of high organic pollution. Lower figures suggest that the organic pollution of the sample is not high, that the sample is not representative, or that some substance or factor interfering with algal persistence is present and active.

SPECIES DIVERSITY AND ABUNDANCE INDICES

"Information content" of biological samples is being used commonly by biologists as a measure of diversity. Diversity in this connection means the degree of uncertainty attached to the specific identity of any randomly selected individual. The greater the number of taxa and the more equal their proportions, the greater the uncertainty, and hence, the diversity (Pielou 1966). There are several methods of measuring diversity, e.g., the formulas given by Brillouin (1962) and Shannon and Weaver (1963). The method which is appropriate depends on the type of biological sample on hand.

Pielou (1966) classifies the types of biological samples and gives the measure of diversity appropriate for each type. The Survey phytoplankton samples are what she classifies as larger samples (collections in Pielou's terminology) from which random subsamples can be drawn. According to Pielou, the average diversity per individual (H) for these types of samples can be estimated from the Shannon-Wiener formula (Shannon and Weaver 1963):

$$H = -\sum_{i=1}^{S} P_i \log_x P_i$$

where P is the proportion of the ith taxon in the sample, which is calculated from n_i/N; n_i is the number of individuals per milliliter of the ith taxon; N is the total number of individuals per ml; and S is the total number of taxa.

However, Basharin (1959) and Pielou (1966) have pointed out that H calculated from the subsample is a biased estimator of the sample H, and if this bias is to be accounted for, we must know the total number of taxa present in the sample since the magnitude of this bias depends on it.

Pielou (1966) suggests that if the number of taxa in the subsample falls only slightly short of the number in the larger sample, no appreciable error will result in considering S, estimated from the subsample, as being equal to the sample value. Even though considerable effort was made to find and identify all taxa, the Survey samples undoubtedly contain a fair number of rare phytoplankton taxa which were not encountered.

In the Shannon-Wiener formula, an increase in the number of taxa and/or an increase in the evenness of the distribution of individuals among taxa will increase the average diversity per individual from its minimal value of zero. Sager and Hasler (1969) found that the richness of taxa was of minor importance in determination of average diversity per individual for phytoplankton and they concluded that phytoplankton taxa in excess of the 10 to 15 most abundant ones have little effect on H. This was verified by our own calculations. Our counts are in number per milliliter and since logarithms to the base 2 were used in our calculations, H is expressed in units of bits per individual. When individuals of a taxon were so rare that they were not counted, a value of 1/130 per milliliter or 0.008 per milliliter was used in the calculations since at least one individual of the taxon must have been present in the collection.

A Survey sample for a given lake represents a composite of all phytoplankton collected at different sampling sites on a lake during a given sampling period. Since the number of samples (M) making up a composite is a function of both the complexity of the lake sampled and its size, it should affect the richness-of-taxa component of the diversity of our phytoplankton collections. The maximum diversity (MaxH) (i.e., when the individuals are distributed among the taxa as evenly as possible) was estimated from $\log_2 S$, the total diversity (D) was calculated from HN, and the evenness component of diversity (J) was estimated from H/MaxH (Pielou 1966). Also given in the Appendix are L (the mean number of individuals per taxa per milliliter) and K (the number of individuals per milliliter of the most abundant taxon in the sample).

Zand (1976) suggests that diversity indices be expressed in units of "sits", i.e., in logarithms to base S (where S is the total number of taxa in the sample) instead of in "bits", i.e., in logarithms to base 2. Zand points out that the diversity index in sits per individual is a normalized number ranging from 1 for the most evenly distributed samples to 0 for the least evenly distributed samples. Also, it can be used to compare different samples, independent of the number of taxa in each. The diversity in bits per individual should not be used in direct comparisons involving various samples which have different numbers of species. Since MaxH equals log S, the expression in sits is equal to $\log_S S$, or 1. Therefore diversity in sits per individual is numerically equivalent to J, the evenness component for the Shannon-Wiener formula.

SPECIES OCCURRENCE AND ABUNDANCE

The alphabetic phytoplankton species list for each lake, presented in the Appendix, gives the concentrations of individual species by sampling date. Concentrations are in cells, colonies, or filaments (CEL, COL, FIL) per milliliter. An "X" after a species name indicates the species identified in the preliminary examination was in such a low concentration that it did not appear in the count. A blank space indicates that the organism was not found in the sample collected on that date. Column S is used to designate the examiner's subjective opinion of the five dominant taxa in a sample, based upon relative size and concentration of the organism. The percent column (%C) presents, by abundance, the percentage composition of each taxon.

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APPENDIX. SUMMARY OF PHYTOPLANKTON DATA

This appendix was generated by computer. Because it was only possible to use upper case letters in the printout, all scientific names are printed in upper case and are not italicized.

The alphabetic phytoplankton lists include taxa without species names (e.g., EUNOTIA, EUNOTIA #1, FLAGELLATE, FLAGELLATES, MICROCYSTIS INCERTA ?, CHLOROPHYTAN COCCOID CELLED COLONY). When species determinations were not possible, symbols or descriptive phrases were used to separate taxa for enumeration purposes. Each name on a list, however, represents a unique species different from any other name on the same list, unless otherwise noted, for counting purposes.

Numbers were used to separate unidentified species of the same genus. A generic name listed alone is also a unique species. A question mark (?) is placed immediately after the portion of a name which was assigned with uncertainty. Numbered, questioned, or otherwise designated taxa were established on a lake-by-lake basis; therefore NAVICULA #2 from lake A cannot be compared to NAVICULA #2 from lake B. Pluralized categories (e.g., FLAGELLATES, CENTRIC DIATOMS, SPP.) were used for counting purposes when taxa could not be properly differentiated on the counting chamber.

LAKE NAME: ALLIGATOR LAKE
STORET NUMBER: 1201

NYGAARD TROPHIC STATE INDICES

DATE	03 07 73	08 31 73	11 05 73
MYXOPHYCEAN	0.62 E	10/0 E	4.50 E
CHLOROPHYCEAN	3.25 E	23/0 E	6.00 E
EUGLENOPHYTE	0.03 ?	0.06 ?	0/21 ?
DIATOM	0.50 E	3.00 E	03/0 E
COMPOUND	4.12 E	38/0 E	12.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 07 73	08 31 73	11 05 73
GENUS	05	13	13
SPECIES	00	02	02

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 07 73	08 31 73	11 05 73
AVERAGE DIVERSITY	H	3.59	4.31	2.44
NUMBER OF TAXA	S	53.00	43.00	30.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	5.73	5.43	4.91
TOTAL DIVERSITY	D	26810.12	179093.43	86485.80
TOTAL NUMBER OF INDIVIDUALS/ML	N	7468.00	41553.00	35445.00
EVENESS COMPONENT	J	0.63	0.79	0.50
MEAN NUMBER OF INDIVIDUALS/TAXA	L	140.91	966.35	1181.50
NUMBER/ML OF MOST ABUNDANT TAXON	K	2182.00	5485.00	15698.00

LAKE NAME: ALLIGATOR LAKE
STORET NUMBER: 1201

CONTINUED

TAXA	FORM	03 07 73 S	03 07 73 %C	03 07 73 ALGAL UNITS PER ML	08 31 73 S	08 31 73 %C	08 31 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
ACHNANTHES MICROCEPHALA	CEL		0.3	23						
ACTINASTRUM HANTZSCHII	COL									
ANABAENA	FIL					0.4	183		0.5	193
ANABAENA #1	FIL				4	6.6	2742	3	3.3	1163
ANABAENA #2	FIL		0.9	70						
ANKISTRODESMUS FALCATUS V. CUPLEX ?	FIL			X						
APHANOCAPSA	COL									
ARTHRODESMUS INCUS	COL						X			
CERATIUM HIRUNDINELLA	CEL		1.9	139				4	2.7	967
CHLOROPHYTAN FLAGELLATE	CEL			X						
CHLOROPHYTAN LUNATE CELL	CEL									
CHROCOCCUS	CEL								1.1	386
CHROCOCCUS #1	COL					1.8	731			
CHROCOCCUS #2	COL									X
CLOSTERIUM	COL				1	13.2	5485			
CLOSTERIUM #1	COL				2	10.0	4138			
CLOSTERIUM #2	CEL									
CLOSTERIUM GRACILE ?	CEL		0.3	23						X
COELASTRUM MICROPORUM	CEL		0.6	46						
COELASTRUM RETICULATUM	CEL									
CCELOSPHAERIUM NAEGELIANUM	COL		0.6	46		1.3	549			X
COLONY #1	COL	3	6.5	487			X			X
COSMARIUM	COL		0.6	46						
CRUCIGENIA APICULATA	CCL									
CRUCIGENIA TETRAPEDIA	CEL			X					1.6	581
CRYPTOMONAS	COL	4	6.5	487		3.1	1280			
CYCLOTELLA	COL		9.2	534						
CYCLOTELLA MENEGHINIANA	CEL	1	16.8	1253		3.9	1600			X
CYMBELLA	CEL					4.0	1645			
DACTYLOCOCCOPSIS	CEL				3	9.7	4022		0.5	193
DICHOTHRIX	CEL			X						
DICTYOSPHAERIUM PULCHELLUM	COL			X						
DINOBRYON BAVARICUM	COL		0.3	23			X			
DINOBRYON DIVERGENS	CEL			X					1.1	386
DINOFLAGELLATE	CEL		2.2	162						
FLAKATOTHRIX GELATINOSA	CEL									
FLASTRUM DENTICULATUM	CCL			X					0.5	193
EUGLENA ACUS	CEL			X						
EUGLENA ELEGANS	CEL			X						
EUGLENA ACUS	CEL									
FLAGELLATE #1	CEL						X			
FLAGELLATE #2	CEL	2	29.2	2182		0.9	366			
FLAGELLATES	CEL		1.6	116						
GLENODINIUM OCULATUM	CEL					3.5	1443	5	2.7	967
GOLENKINIA	CEL			X						
KIRCHNERIELLA	CEL						X			
MELOSIRA	CEL			X						
MELOSIRA DISTANS	CEL									
MELOSIRA GRANULATA	CEL							1	44.3	15698
MERISMOPEDIA MINIMA	CEL					1.8	731			
MERISMOPEDIA PUNCTATA	CEL			X					1.1	386
MERISMOPEDIA TENUISSIMA	COL					1.3	548		0.5	193
MICRACTINIUM PUSILLUM	CCL								0.5	193
MICROCYSTIS AERUGINOSA	COL					2.6	1097			
MICROCYSTIS INCERTA	COL					3.1	1280			X
MICROCYSTIS	CCL		0.3	23						
NAVICULA	COL				5	7.9	3291		1.1	386
OOCYSTIS	CEL					0.9	366			
OOCYSTIS SUBMARINA	CCL		4.4	325						
OPHIOCYTIUM CAPITATUM	COL			X		0.4	183			
OSCILLATORIA LIMNETICA	CEL			X						
OSCILLATORIA LIMOSA	FIL					3.5	1463			
OSCILLATORIA SUBBREVIS	FIL						X			
PALMELLOID COLONY	FIL					5.3	2194			
PEDIASTRUM CUPLEX	COL			X				2	32.8	11628
PEDIASTRUM CUPLEX V. GRACILIMUM	CCL		0.3	23						
PEDIASTRUM CUPLEX V. RETICULATUM	COL						X			
PEDIASTRUM SIMPLEX V. DUODENARIUM	COL			X						
PEDIASTRUM TETRAS V. TETRADON	COL									X
PENNATE DIATOM	CCL			X						
PHACUS	CEL					5.3	2194			
PHACUS PLEURONECTES	CEL						X			
PHORMIDIUM	CEL			X						
RAPHIDIOPSIS ?	FIL								1.1	386
RAPHIDIOPSIS MEDITERRANEA	FIL								1.6	581
SCENEDESMUS	COL					0.4	183			
SCENEDESMUS #1	CCL								0.5	193
SCENEDESMUS #2	COL					3.1	1280			
SCENEDESMUS #3	COL					2.2	914		0.5	193
	COL					0.4	183			

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LAKE NAME: ALLIGATOR LAKE CONTINUED
STORET NUMBER: 1201

TAXA	FORM	03 07 73 S	03 07 73 %C	03 07 73 ALGAL UNITS PER ML	08 31 73 S	08 31 73 %C	08 31 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
SCENEDESMUS ACUMINATUS	COL					0.4	183			
SCENEDESMUS ARCUATUS	COL	S	5.9	441						
SCENEDESMUS BICAUDATUS	COL		0.6	46						
SCENEDESMUS DENTICULATUS	COL		0.3	23						
SCENEDESMUS INTERMEDIUS V. BICAUDATUS	COL		0.3	23						
SCENEDESMUS PROTUBERANS	COL		0.6	46						
SCENEDESMUS QUADRICAUDA	COL		0.3	23						
SCHROEDERIA	CEL						X		1.1	386
SCHROEDERIA SETIGERA	CEL		2.9	209						
SELENASTRUM WESTII	COL						X			
SPHAEROCYSTIS SCHROETERI	COL		5.6	418						
STAURASTRUM #1	COL		0.3	23						
STAURASTRUM #3	CEL		0.3	23						
STAURASTRUM CHAETOCERUS	CEL		0.3	23						
TETRAEDRON #1	CEL					0.9	366			
TETRAEDRON GRACILE	CEL		0.3	23			X			X
TETRAEDRON LIMNETICUM	CEL		0.3	23						
TETRAEDRON MINIMUM	CEL			X		2.2	914		0.5	193
TETRAEDRON MUTICUM	CEL			X						
TETRAEDRON SPP.	CEL						X			X
TETRAEDRON TRIGONUM	CEL			X						
TETRASTRUM STAUROGENIAEFORME	COL		1.6	116						
TREUBARIA	CEL						X			
TOTAL				7458			41553			35445

LAKE NAME: LAKE APOPKA
STORET NUMBER: 1202

NYGAARD TROPHIC STATE INDICES

DATE	03 12 73	09 06 73	11 07 73
MYXOPHYCEAN	7.50 E	4.33 E	4.67 E
CHLOROPHYCEAN	11.0 E	5.33 E	3.67 E
EUGLENOPHYTE	0.03 ?	0/29 ?	0.04 ?
DIATOM	0.25 ?	0.20 ?	0.60 E
COMPOUND	19.5 E	10.0 E	9.67 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 12 73	09 06 73	11 07 73
GENUS	09	06	09
SPECIES	04	00	04

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 12 73	09 06 73	11 07 73
AVERAGE DIVERSITY	H	3.28	2.31	3.05
NUMBER OF TAXA	S	48.00	38.00	39.00
NUMBER OF SAMPLES COMPOSITED	M	6.00	6.00	6.00
MAXIMUM DIVERSITY	MAXH	5.58	5.25	5.29
TOTAL DIVERSITY	D	237278.48	243081.30	265121.25
TOTAL NUMBER OF INDIVIDUALS/ML	N	72341.00	105230.00	86925.00
EVENESS COMPONENT	J	0.59	0.44	0.58
MEAN NUMBER OF INDIVIDUALS/TAXA	L	1507.10	2769.21	2228.85
NUMBER/ML OF MOST ABUNDANT TAXON	K	18313.00	59733.00	45547.00

LAKE NAME: LAKE APOPKA
STORET NUMBER: 1202

CONTINUED

TAXA	FORM	03 12 73 S	03 12 73 %C	03 12 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
ANABAENA	FIL		0.5	341		0.5	550			
ANABAENA #1	FIL							4	3.4	2977
ANABAENA #2	FIL								1.4	1191
ANABAENOPSIS	FIL		3.8	2730		1.2	1233		0.7	595
ANABAENOPSIS PHILIPPINENSIS	FIL			X						
ANKISTRODESMUS FALCATUS	CEL			X						
APHANOCAPSA ELACHISTA	COL	5	9.2	5915		1.6	1650	3	5.1	4465
APHANOTHECE #1	COL		0.8	569						
APHANOTHECE NIDULANS	COL	4	15.4	11147						
APHANOTHECE SAXICOLA	COL								0.3	298
CENTRIC DIATOMS	CEL								0.3	298
CHROOCOCCUS #1	COL					0.9	917		2.1	1786
CHROOCOCCUS #2	COL		5.0	3640			X		1.7	1488
CHROOCOCCUS #3	COL			X						
CHROOCOCCUS #4	COL			X						
CLOSTERIUM	CEL						X			X
COSMARIUM	CEL		2.0	1479		1.4	1467			
COSMARIUM #1	CEL									X
COSMARIUM #2	CEL									X
CRYPTOMONAS EROSA	CEL		0.3	227						
CYANOPHYTAN COCCOID CELLED COLONY	COL				4	2.3	2450		1.0	893
DACTYLOCOCCOPSIS	CEL								1.0	893
DICTYOSPHAERIUM PULCHELLUM	COL					0.3	366		0.3	298
EUGLENA	CEL			X						X
FLAGELLATE #1	CEL								1.0	893
FLAGELLATES	CEL								1.4	1191
FRAGILARIA BREVISTRIATA	CEL							5	3.1	2679
FRAGILARIA BREVISTRIATA V. INFLATA	CEL		2.2	1592						
GLEOCYSTIS AMPLA	COL		0.3	227						
GOLENKINIA	CEL		0.3	227						
GOLENKINIA RADIATA	CEL			X						
KIRCHNERIELLA	CEL			X					1.0	893
LAGERHEIMIA	CEL			X						
LAGERHEIMIA SUBSALSA	CEL									X
LYNGBYA #1	FIL					0.6	583			X
LYNGBYA LAGERHEIMII	FIL	3	13.8	10010	2	20.6	21700	2	9.2	8038
LYNGBYA LIMNETICA	FIL	1	25.3	18313	1	56.8	59733	1	52.4	45547
MALLOMONAS	CEL			X						
MELOSIRA	CEL			X	3	3.5	3667		2.1	1786
MERISMOPEDIA MINIMA	COL		3.0	2161		2.1	2200			
MERISMOPEDIA PUNCTATA	COL						X			
MERISMOPEDIA TENUISSIMA	COL					0.7	733		0.7	595
MICRACTINIUM PUSILLUM V. ELEGANS	COL			X			X			
MICROCYSTIS AERUGINOSA	COL			X						
MICROCYSTIS INCERTA	COL	2	15.1	10919	5	2.9	3033		1.0	893
NAVICULA	CEL									X
NITZSCHIA #1	CEL		0.2	114					1.0	893
NITZSCHIA #2	CEL		0.2	114					2.1	1786
OOCYSTIS	CEL			X					0.3	298
PEDIASTRUM ?	COL						X			
PEDIASTRUM BORYANUM	COL		0.6	455		0.9	917		1.4	1191
PEDIASTRUM BORYANUM V. LONGICORNE	COL			X						
PEDIASTRUM DUPLEX V. CLATHRATUM ?	COL						X			
PEDIASTRUM DUPLEX V. RETICULATUM	COL			X			X			
PENNATE DIATOM	CEL		0.6	455						
PENNATE DIATOM #1	CEL					1.4	1467		1.4	1191
PENNATE DIATOM #2	CEL					0.5	550			
PENNATE DIATOM #3	CEL					0.2	183			
PENNATE DIATOM #4	CEL					0.7	733			
PENNATE DIATOM #5	CEL						X			
PHORMIDIUM MUCICOLA	COL		0.3	227						
RHIZOSOLENIA	CEL									X
SCENEDESMUS #1	COL						X			
SCENEDESMUS ABUNDANS	COL					0.3	366		1.7	1488
SCENEDESMUS ACUMINATUS	COL		0.2	114		0.2	183			
SCENEDESMUS BICAUDATUS	COL								0.3	298
SCENEDESMUS DIMORPHUS	COL		0.2	114						
SCENEDESMUS PERFORATUS	COL			X			X			
SCENEDESMUS QUADRICAUDA	COL		0.8	569					0.7	595
SCHROEDERIA SETIGERA	CEL			X						
SELENASTRUM	CEL			X						
STAURASTRUM	CEL			X			X			
TETRADESMUS WISCONSINENSE	COL			X						
TETRAEDRON #1	CEL						X		0.7	595
TETRAEDRON #2	CEL						X			
TETRAEDRON GRACILE	CEL			X			X		0.3	298
TETRAEDRON MINIMUM	CEL		0.6	455		0.3	366		0.7	595
TETRAEDRON MUTICUM	CEL		0.3	227			X			

LAKE NAME: LAKE APOPKA
STORET NUMBER: 1202

CONTINUED

TAXA	FORM	03 12 73 S	03 12 73 %C	03 12 73 ALGAL UNITS PER ML	09 05 73 S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
TETRAEDRON TRIGONUM V. GRACILE	CEL			X						
TETRASTRUM	COL			X						
TREUBARIA	CEL					0.2	183			
TOTAL				72341			105230			86925

LAKE NAME: BANANA LAKE
STORET NUMBER: 1203

NYGAARD TROPHIC STATE INDICES

DATE	09 04 73	11 06 73
MYXOPHYCEAN	10/0 E	09/0 E
CHLOROPHYCEAN	13/0 E	15/0 E
EUGLENOPHYTE	0/23 ?	0.08 ?
DIATOM	0.67 E	0/01 ?
COMPOUND	25/0 E	26/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 04 73	11 06 73
GENUS	17	18
SPECIES	02	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

	DATE	09 04 73	11 06 73
AVERAGE DIVERSITY	H	3.39	3.58
NUMBER OF TAXA	S	32.00	30.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	5.00	4.91
TOTAL DIVERSITY	D	219922.86	341113.14
TOTAL NUMBER OF INDIVIDUALS/ML	N	64874.00	95283.00
EVENESS COMPONENT	J	0.68	0.73
MEAN NUMBER OF INDIVIDUALS/TAXA	L	2027.31	3176.10
NUMBER/ML OF MOST ABUNDANT TAXON	K	15891.00	15785.00

LAKE NAME: BANANA LAKE
SYCRET NUMBER: 1203

CONTINUED

TAXA	FORM	09 04 73 S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
ANKISTRODESMUS	CEL					1.6	1540
APHANOCAPSA	COL		2.5	1638			
APHANOCAPSA DELICATISSIMA	COL			X			
CENTRIC DIATOM	CEL		0.3	164			
CHLAMYDOMONAS	CEL		1.8	1147			
CHLOROGONIUM	CEL		1.3	819		0.4	385
CHROOCOCCUS DISPERSUS	COL	2	24.5	.5891	1	16.6	15785
COELASTRUM	COL			X			
CYCLOTELLA MENEGHINIANA	CEL		0.5	328			
DACTYLOCOCCOPSIS	CEL		0.8	491			
DACTYLOCOCCOPSIS FASCICULARIS	CEL					5.7	5390
DIATOMA	CEL			X			
DINOFLAGELLATE	CEL					0.2	192
EUGLENA	CEL					0.6	577
FLAGELLATE #1	CEL		2.0	1310			
FLAGELLATES	CEL					5.7	5390
GOLENKINIA	CEL		7.6	4915			
GOLENKINIA RADIATA	CEL			X	4	9.9	9432
KIRCHNERIELLA	CEL		2.0	1310	1	1.8	1732
LAGERHEIMIA CITRIFORMIS	CEL		0.3	164			
LAGERHEIMIA LONGISETA	CEL						X
LEPOCINCLIS	CEL					0.2	192
LYNGBYA #1	FIL					0.4	385
LYNGBYA CENTORTA	FIL			X		1.4	1347
MERISMOPEDIA MINIMA	COL		0.5	328			
MERISMOPEDIA PUNCTATA	COL		0.5	328			X
MERISMOPEDIA TENUISSIMA	COL			X		1.4	1347
MICROCYSTIS INCERTA	COL		1.3	819		5.7	5352
OSCILLATORIA	FIL					2.8	2695
OSCILLATORIA ANGUSTISSIMA	FIL						X
OSCILLATORIA LIMNETICA	FIL		0.3	164			
PEDIASTRUM	COL						X
PEDIASTRUM BORYANUM	COL			X			X
PEDIASTRUM TETRAS	COL						X
PEDIASTRUM TETRAS V. TETRAODON	COL		0.8	491		0.8	770
PENNATE DIATOM	CEL	3	11.6	7536			
PENNATE DIATOMS	CEL					6.5	6160
SCENEDESMUS #1	COL	1	17.2	11140	3	12.9	12320
SCENEDESMUS #2	COL			X			X
SCENEDESMUS #3	COL						X
SCENEDESMUS ABUNDANS	COL	5	8.3	5406	2	15.2	14437
SCENEDESMUS DIMORPHUS	COL						X
SCENEDESMUS GRANULATUS	COL			X			
SCENEDESMUS OPOLIENSIS	COL		7.3	4751	5	9.3	8855
SCENEDESMUS SPP.	COL	4	8.5	5570			
SYNEDRA	CEL		0.3	164			
TETRAEDRON	CEL			X			
TETRAEDRON MINIMUM	CEL						X
TOTAL				64874			95283

LAKE NAME: LAKE CRESCENT
STORET NUMBER: 1206

NYGAARD TROPHIC STATE INDICES

DATE	03 10 73	09 07 73	11 08 73
MYXOPHYCEAN	0.75 E	3.50 E	2.17 E
CHLOROPHYCEAN	1.25 E	3.25 E	3.50 E
EUGLENOPHYTE	0.25 E	0.11 ?	0.15 ?
DIATOM	1.00 E	5.00 E	6.00 E
COMPOUND	3.75 E	8.75 E	7.50 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 10 73	09 07 73	11 08 73
GENUS	01	13	13
SPECIES	00	00	02

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 10 73	09 07 73	11 08 73
AVERAGE DIVERSITY	H	3.06	3.57	3.84
NUMBER OF TAXA	S	26.00	43.00	58.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	3.00	3.00
MAXIMUM DIVERSITY	MAXH	4.70	5.43	5.86
TOTAL DIVERSITY	D	1352.52	69900.60	62941.44
TOTAL NUMBER OF INDIVIDUALS/ML	N	442.00	19580.00	16391.00
EVENESS COMPONENT	J	0.65	0.55	0.55
MEAN NUMBER OF INDIVIDUALS/TAXA	L	17.00	455.35	282.60
NUMBER/ML OF MOST ABUNDANT TAXON	K	132.00	4730.00	3975.00

LAKE NAME: LAKE CRESCENT
STORET NUMBER: 1206

CONTINUED

TAXA	FORM	03 10 73 S	03 10 73 %C	03 10 73 ALGAL UNITS PER ML	09 07 73 S	09 07 73 %C	09 07 73 ALGAL UNITS PER ML	11 08 73 S	11 08 73 %C	11 08 73 ALGAL UNITS PER ML
ACTINASTRUM	COL								0.6	95
ACTINASTRUM HANTZSCHII	COL						X			
ANABAENA	FIL	5	3.6	16						
ANABAENA #1	FIL					1.1	220		1.4	237
ANABAENA #2	FIL					2.2	440			
ARTHRODESMUS	CEL						X			
CENTRIC DIATOM	CEL								5.0	821
CHLAMYDOMONAS	CEL									X
CHLOROPHYTAN FLAGELLATES	CEL									X
CHROOCOCCUS DISPERSUS	COL					2.2	440		1.2	189
CHROOCOCCUS LIMNETICUS	COL						X			
CLOSTERIUM #1	CEL	4	3.6	16			X		1.7	284
CLOSTERIUM #2	CEL		3.6	16			X			X
CLOSTERIUM #3	CEL			X						
COCCONEIS PLACENTULA V. EUGLYPTA	CEL			X						
COELASTRUM CAMBRICUM	COL									X
COELASTRUM MICROPORUM	COL			X						
COSCINODISCUS ?	CEL					1.7	330			
COSCINODISCUS LACUSTRIS	CEL			X						
COSCINODISCUS ROTHII V. SUBSALSA	CEL	3	7.5	33						
CRUCIGENIA TETRAPEDIA	COL					1.1	220			
CRYPTOMONAS EROSA	CEL			X						
CYANOPHYTAN FILAMENT	FIL					1.7	330			
CYCLOTELLA	CEL					3.4	660			
CYCLOTELLA MENEGHINIANA	CEL			X				3	7.2	1186
DACTYLOCOCCOPSIS	CEL		3.6	16					2.9	473
DACTYLOCOCCOPSIS FASCICULARIS	COL					4.5	880			X
DICTYOSPHAERIUM	COL								0.6	95
DICTYOSPHAERIUM PULCHELLUM	CEL						X			X
DINOFLAGELLATE	CEL									X
EUASTRUM	COL								0.3	47
EUCAPSIS MINUTA	COL					1.7	330			
EUDORINA	CEL					0.6	110			
EUGLENA	CEL								0.3	47
EUGLENA #1	CEL					0.6	110			
EUGLENA ACUS	CEL						X			X
EUGLENA OXYURIS V. MINOR	CEL			X						
FLAGELLATE #1	CEL	2	29.9	132		2.8	550			
FLAGELLATE #2	CEL					0.6	110			
FLAGELLATES	CEL							2	17.9	2934
KIRCHNERIELLA	CEL								1.2	189
LAGERHEIMIA	CEL								0.3	47
LAGERHEIMIA CITRIFORMIS	FIL						X			
LYNGBYA CIRCUMCRETA	FIL		7.5	33	3	15.2	2970	5	6.9	1136
LYNGBYA LIMNETICA	CEL				2	19.1	3740		2.9	473
MELOSIRA #2	CEL				5	3.9	770		1.7	284
MELOSIRA DISTANS	CEL				4	4.5	880	4	8.1	1325
MELOSIRA GRANULATA	CEL		3.6	16						
MELOSIRA GRANULATA V. ANGUSTISSIMA	CEL	1	22.4	99						
PERISMOPEDIA MINIMA	COL					0.6	110		0.3	47
PERISMOPEDIA TENUISSIMA	COL								0.3	47
MESOSTIGMA VIRIDIS	CEL									X
MICROCYSTIS	COL					1.1	220		5.2	852
MICROCYSTIS AERUGINOSA	COL					4.5	880			
MICROCYSTIS INCERTA	CEL		3.6	16						X
NAVICULA	CEL		3.6	16						
NITZSCHIA	CEL			X						
OOCYSTIS	FIL								1.2	189
OSCILLATORIA	FIL				1	24.2	4730	1	24.3	3975
OSCILLATORIA LIMNETICA	COL								0.3	47
PANDORINA MORUM	COL									X
PEDIASTRUM DUPLEX V. CLATHRATUM	COL								0.3	47
PEDIASTRUM DUPLEX V. RETICULATUM	COL									X
PEDIASTRUM SIMPLEX V. DUODENARIUM	COL								0.3	47
PEDIASTRUM TETRAS V. TETRAODON	COL			X			X		0.3	47
PENNATE #1	CEL		7.5	33			X			X
PENNATE DIATOM	CEL						X		1.4	237
PENNATE DIATOM #2	CEL			X						
PHACUS #1	CEL						X		0.3	47
PHACUS #2	CEL									X
PHACUS #3	CEL									X
PHACUS ACUMINATUS	CEL			X						
RAPHIDIOPSIS ?	FIL								0.9	142
RAPHIDIOPSIS CURVATA	FIL						X			X
RAPHIDIOPSIS MEDITERRANEA	FIL									

LAKE NAME: LAKE CRESCENT
STORET NUMBER: 1206

CONTINUED

TAXA	FORM	03 10 73 S	03 10 73 BC	03 10 73 ALGAL UNITS PER ML	09 07 73 S	09 07 73 BC	09 07 73 ALGAL UNITS PER ML	11 08 73 S	11 08 73 BC	11 08 73 ALGAL UNITS PER ML
RHIZOSCLENIA	CEL									X
RHIZOSCLENIA MINIMA	CEL					1.7	330		0.3	47
SCENEDESMUS	COL			X						
SCENEDESMUS ? PERFORATUS	COL									X
SCENEDESMUS #1	COL								1.2	189
SCENEDESMUS #3	COL								0.3	47
SCENEDESMUS ACUMINATUS	COL						X		0.6	95
SCENEDESMUS BIJUGA	COL								0.6	95
SCENEDESMUS QUADRICAUDA	COL						X			
SCHROEDERIA	CEL									X
SELENASTRUM	COL								0.6	95
SPHAEROCYSTIS SCHROETERI	COL			X						
STAURASTRUM	CEL						X			
STAURASTRUM #1	CEL									X
STAURASTRUM #2	CEL									X
STAURASTRUM #3	CEL								0.3	47
STAURASTRUM ENACIATUM	CEL			X						
TETRAEDRON #1	CEL						X			
TETRAEDRON #2	CEL									X
TETRAEDRON GRACILE	CEL									X
TETRAEDRON MINIMUM	CEL						X			
TETRAEDRON TRIGONUM	CEL						X			
TETRASTRUM ELEGANS	COL					0.6	110		1.4	237
TREUBARIA	CEL					0.6	110			
TOTAL				442			19580			16391

LAKE NAME: DOCTORS LAKE
STORET NUMBER: 1207

NYGAARD TROPHIC STATE INDICES

DATE	03 07 73	09 07 73	11 08 73
MYXOPHYCEAN	5.00 E	2.17 E	13.0 E
CHLOROPHYCEAN	11.0 E	4.00 E	18.0 E
EUGLENOPHYTE	0/32 ?	0.03 ?	0.10 ?
DIATOM	0.60 E	1.50 E	2.00 E
COMPOUND	19.0 E	7.33 E	36.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 07 73	09 07 73	11 08 73
GENUS	17	11	18
SPECIES	09	04	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 07 73	09 07 73	11 08 73
AVERAGE DIVERSITY	H	4.12	3.55	3.29
NUMBER OF TAXA	S	59.00	57.00	44.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	3.00	3.00
MAXIMUM DIVERSITY	MAXH	5.88	5.83	5.46
TOTAL DIVERSITY	D	154166.28	189704.90	140877.80
TOTAL NUMBER OF INDIVIDUALS/ML	N	37419.00	53438.00	42820.00
EVENESS COMPONENT	J	0.70	0.51	0.60
MEAN NUMBER OF INDIVIDUALS/TAXA	L	634.22	937.51	973.18
NUMBER/ML OF MOST ABUNDANT TAXON	K	10823.00	15708.00	11678.00

LAKE NAME: DOCTORS LAKE
STORET NUMBER: 1297

CONTINUED

TAXA	FORM	03 07 73 S	03 07 73 %C	03 07 73 ALGAL UNITS PER ML	09 07 73 S	09 07 73 %C	09 07 73 ALGAL UNITS PER ML	11 08 73 S	11 08 73 %C	11 08 73 ALGAL UNITS PER ML
ANABAENA	FIL		0.2	76						
ANABAENA #1	FIL								0.6	257
ANABAENA #2	FIL								2.4	1027
ANABAENOPSIS	FIL					2.0	1078			
ANABAENOPSIS #1	FIL					0.9	462			
ANABAENOPSIS #2	FIL						X		0.3	128
ANKISTRODESMUS	CEL									X
ANKISTRODESMUS FALCATUS	CEL		0.2	76						
ANKISTRODESMUS FALCATUS V. ACICULARIS	CEL						X			
APHANOCAPSA	COL						X			
APHANOTHECE	COL		0.2	76						
ASTERIONELLA	CEL						X			
CARTERIA	CEL		0.8	305						
CENTRIC DIATOM	CEL				3	10.4	5544			
CENTRIC DIATOMS	CEL								1.5	642
CHLOROGONIUM	CEL									X
CHROOCOCCUS	COL		0.2	76					1.2	513
CHROOCOCCUS #1	COL					2.6	1386			
CHROOCOCCUS #2	COL					0.6	308			
COCCONEIS PLACENTULA	CEL		0.4	152						
COELASTRUM CAMBRICUM V. INTERMEDIUM	COL			X						
COELASTRUM SPHAERICUM	COL					0.3	154			
COSCINODISCUS #1	CEL						X			
COSCINODISCUS #2	CEL						X			
COSCINODISCUS ROTHII V. SUBSALSA	CEL		0.2	76						
COSMARIUM	CEL		0.2	76						
COSMARIUM ? #1	CEL					0.3	154			
COSMARIUM #2	CEL						X			
COSMARIUM #3	CEL						X			
CRUCIGENIA	COL		0.2	76						
CRUCIGENIA APICULATA	COL						X			
CRYPTOMONAS EROSA	CEL	3	5.5	2058						
CYCLOTELLA	CEL						X			
CYCLOTELLA MENEGHINIANA	CEL		2.0	762						
DACTYLOCOCCOPSIS	CEL		3.3	01219	2	21.3	11396			
DACTYLOCOCCOPSIS FASCICULARIS	CEL							2	26.4	11293
DICTYOSPHAERIUM	COL			X						
DICTYOSPHAERIUM PULCHELLUM	COL						X			X
DINOFLAGELLATE	CEL					0.6	308			
DINOFLAGELLATE #1	CEL									X
DINOFLAGELLATE #2	CEL									X
DIPLONEIS	CEL			X						
EUASTRUM DENTICULATUM	CEL					0.3	154			
EUGLENA	CEL								0.3	128
FLAGELLATE #1	CEL	4	10.2	3811						
FLAGELLATE #2	CEL		1.6	610						
FLAGELLATES	CEL					1.7	924	3	7.8	3337
FRAGILARIA CONSTRUENS	CEL					2.0	1078			
FRAGILARIA LEPTOSTAURON	CEL		2.2	838						
FRANCEIA DROESCHERI	CEL						X		1.2	513
GLENODINIUM OCULATUM	CEL		0.4	152						
GOLENKINIA	CEL					0.6	308			
GOLENKINIA RADIATA	CEL		1.4	534			X		0.3	128
GYMNODINIUM ALBULUM ?	CEL			X						
GYROSIGMA	CEL			X						
METEROTHRIX ?	FIL								0.3	128
KIRCHNERIELLA	CEL	5	6.7	2515					2.6	1115
LAGERHEIMIA SUBSALSA	CEL		0.8	305						
LUNATE CELL	CEL					0.9	462			
LYNGBYA	FIL		2.0	762						
LYNGBYA CIRCUMCRETA	FIL				5	4.3	2310		0.9	385
LYNGBYA LIMNETICA	FIL				4	5.5	2926		1.8	770
MALLOMONAS ACAROIDES	CEL			X						
MELOSIRA	CEL								3.3	1412
MELOSIRA #4	CEL	11	28.9	10823						
MELOSIRA DISTANS	CEL		0.6	229		0.6	309			
MELOSIRA ISLANDICA	CEL		2.4	915						
MERISMOPEDIA #1	COL								2.4	1027
MERISMOPEDIA #2	COL								0.3	128
MERISMOPEDIA GLAUCA	COL		2.2	838						
MERISMOPEDIA TENUISSIMA	COL	2	5.7	2134		3.2	1694			
MICRACTINIUM	COL			X						
MICROCYSTIS #1	COL								0.3	128
MICROCYSTIS #2	COL							5	5.7	2438
MICROCYSTIS AERUGINOSA	COL			X		0.6	308			
MICROCYSTIS GLAUCA	COL		2.4	915						
MICROCYSTIS INCERTA	COL		2.6	991		2.9	1540			
NAVICULA #1	CEL		3.9	1448						

LAKE NAME: DOCTORS LAKE
STORET NUMBER: 1207

CONTINUED

TAXA	FORM	03 07 73 S	03 07 73 %C	03 07 73 ALGAL UNITS PER ML	09 07 73 S	09 07 73 %C	09 07 73 ALGAL UNITS PER ML	11 08 73 S	11 08 73 %C	11 08 73 ALGAL UNITS PER ML
NAVICULA #2	CEL		0.4	152						
NITZSCHIA	CEL						X			
NITZSCHIA FILIFORMIS	CEL			X						
NITZSCHIA SPP.	CEL		1.0	381						
NITZSCHIA STAGNORUM ?	CEL			X						
OOCYSTIS	CEL									X
OSCILLATORIA #1	FIL							1	27.3	11678
OSCILLATORIA #2	FIL									X
OSCILLATORIA ANGUSTA	FIL				1	29.4	15708			
PEDIASTRUM DUPLEX V. CLATHRATUM	COL			X						
PEDIASTRUM SIMPLEX	COL			X						
PEDIASTRUM TETRAS V. TETRADON	COL						X			
PENNATE DIATOM	CEL					2.0	1078			
PENNATE DIATOMS	CEL								5.7	2438
PERIDINIUM UMBONATUM	CEL		0.4	152						
PHACUS #1	CEL								0.3	128
PHACUS #2	CEL						X			
PHACUS PYRUM	CEL									X
PHIZOSOLENIA	CEL						X			
SCENEDESMUS	COL					0.6	308			
SCENEDESMUS ABUNDANS	COL		2.6	991		1.4	770			X
SCENEDESMUS ACUMINATUS	COL		0.2	76		0.6	308			X
SCENEDESMUS ACUMINATUS V. BERNARDII	COL						X			
SCENEDESMUS BICAUDATUS	COL		0.8	305						
SCENEDESMUS BIJUGA	COL			X						X
SCENEDESMUS DENTICULATUS	COL						X			
SCENEDESMUS DIMORPHUS	COL		0.2	76						
SCENEDESMUS OPOLIENSIS	COL									X
SCENEDESMUS PROTUBERANS	COL		0.8	305						
SCENEDESMUS QUADRICAUDA	COL		1.6	610		0.9	462			X
SCENEDESMUS SPP.	COL							4	8.3	7695
SCHROEDERIA	CEL					0.3	154			
SCHROEDERIA SETIGERA	CEL		0.2	76						
STAURASTRUM	CEL			X						
STAURASTRUM #1	CEL					0.3	154			X
STAURASTRUM #2	CEL					0.3	154			
STEPHANODISCUS	CEL		0.2	76						
SURIRELLA	CEL			X						
SYNEDRA	CEL		0.2	76						
TETRADESMUS WISCONSINENSE	COL					0.3	154			
TETRAEDRON #2	CEL						X		0.3	128
TETRAEDRON #3	CEL						X			X
TETRAEDRON #5	CEL									X
TETRAEDRON CAUDATUM V. LONGISPINUM	CEL		0.4	152						
TETRAEDRON GRACILE	CEL					0.3	154			
TETRAEDRON MINIMUM V. SCROBICULATUM	CEL		0.2	76		1.7	924			
TETRAEDRON MUTICUM	CEL						X		0.3	128
TETRAEDRON REGULARE	CEL		0.4	152						
TETRASTRUM ?	COL					0.6	308			
TETRASTRUM ELEGANS	COL						X			
TETRASTRUM HETERACANTHUM	COL						X		0.3	128
TETRASTRUM STAUROGENIAEFORME	COL		2.4	915						X
TREUBARIA	CEL									X
TOTAL				37419			53438			42820

LAKE NAME: LAKE DORA
STORET NUMBER: 1208

NYGAARD TROPHIC STATE INDICES

DATE	03 12 73	09 06 73	11 05 73
MYXOPHYCEAN	6.00 E	5.00 E	7.00 E
CHLOROPHYCEAN	6.33 E	3.00 E	4.00 E
EUGLENOPHYTE	0.05 ?	0/24 ?	0/22 ?
DIATOM	0.50 E	0.50 E	1.00 E
COMPOUND	14.0 E	8.33 E	11.5 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 12 73	09 06 73	11 05 73
GENUS	17	06	05
SPECIES	00	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 12 73	09 06 73	11 05 73
AVERAGE DIVERSITY	H	3.51	2.88	2.99
NUMBER OF TAXA	S	59.00	32.00	28.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	3.00	3.00
MAXIMUM DIVERSITY	MAXH	5.88	5.00	4.81
TOTAL DIVERSITY	D	131933.88	172549.44	301009.28
TOTAL NUMBER OF INDIVIDUALS/ML	N	37598.00	59913.00	100672.00
EVENESS COMPONENT	J	0.60	0.58	0.62
MEAN NUMBER OF INDIVIDUALS/TAXA	L	637.08	1872.28	3595.43
NUMBER/ML OF MOST ABUNDANT TAXON	K	13775.00	21409.00	30415.00

LAKE NAME: LAKE DORA
STORET NUMBER: 1209

CONTINUED

TAXA	FORM	03 12 73 S	03 12 73 %C	03 12 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
ACTINASTRUM	CEL			X						
ANABAENA	FIL	5	1.8	673						
ANABAENA #1	FIL					1.0	616		1.3	1347
ANABAENA #2	FIL						X			
ANABAENA SPP.	CEL								1.7	1732
ANKISTRODESMUS ?	CEL						X			
ANKISTRODESMUS FALCATUS	COL			X						
APHANOCAPSA	COL				4	5.7	3389			
APHANOCAPSA PULCHRA ?	COL			X						
APHANOCAPSA SPP.	COL	4	9.1	3061						
APHANOTHECE #1	COL					1.3	770			
APHANOTHECE CASTAGNEI	COL					0.5	308		1.7	1732
APHANOTHECE CLATHRATA	COL			X						
APHANOTHECE NIDULANS	COL			X						
APHANOTHECE STAGNINA	COL		0.2	61						
CHLAMYDOMONAS GLOBOSA	CEL		2.6	980						
CHROCOCCUS	COL		2.6	980		4.1	2464		7.1	07122
CLOSTERIUM	CEL		0.2	61			X			
COELASTRUM CAMBRICUM V. INTERMEDIUM	COL		1.3	490						
COELOSPHAERIUM KUETZINGIANUM	COL		0.5	184		0.3	154			
COSMARIUM	CEL		0.7	245						
COSMARIUM #1	CEL						X		0.6	577
CRUCIGENIA	COL		0.3	122						
CRYPTOMONAS EROSA ?	CEL		0.3	122						
CYCLOTELLA MENEGHINIANA	CEL			X						
DACTYLOCOCCOPSIS	CEL									
DINOFLAGELLATE	CEL								0.4	385
EUCAPSIS	CEL					0.3	154		0.2	192
EUGLENA	CEL			X						
EUGLENA MINUTA	CEL		0.3	122						
FLAGELLATE	CEL			X						
FLAGELLATE #2	CEL					0.3	154			
FLAGELLATES	CEL			X						
FRAGILARIA BREVISTRIATA V. INFLATA									0.8	770
FRANCEIA TUBERCULATA	CEL		2.1	796						
GLENODINIUM GYMNODINIUM	CEL									
KIRCHNERIELLA	CEL		0.3	122						X
LAGERHEIMIA SUBSALSA	CEL		1.0	367						
LYNGBYA	CEL		1.0	367						
LYNGBYA #2	FIL									
LYNGBYA #3	FIL				1	35.7	21409	2	21.4	21560
LYNGBYA #4	FIL				2	25.7	15402	1	30.2	30415
LYNGBYA CIRCUMCRETA	FIL					1.0	616			X
LYNGBYA LAGERHEIMII ?	FIL				3	9.0	5390	4	12.0	12127
LYNGBYA LIMNETICA ?	FIL	2	10.8	4041						
MALLOMONAS ACAROIDES	FIL	1	36.6	13775						
MELOSIRA	CEL		0.2	61						
MELOSIRA GRANULATA	CEL									
MERISMOPEDIA GLAUCA	CEL		0.3	122		3.9	2310			X
MERISMOPEDIA MINIMA	COL			X						
MERISMOPEDIA SPP.	COL			X						
MERISMOPEDIA TENUISSIMA	COL		7.8	2939					5.0	5005
MICRACTINIUM	COL			X						
MICROCYSTIS AERUGINOSA	COL			X			X		0.8	770
MICROCYSTIS INCERTA	COL	3	6.2	2326		3.3	2002		1.1	1155
NAVICULA CRYPTOCEPHALA	COL		4.1	1531	5	5.1	3081	3	13.0	13090
NITZSCHIA	CEL			X						
NITZSCHIA HELSATICA	CEL			X						
OOCYSTIS	CEL			X						
OOCYSTIS SUBMARINA	CEL									X
PEDIASTRUM BORYANUM	COL		0.5	184						
PEDIASTRUM DUPLEX	COL								0.2	192
PEDIASTRUM TETRAS	COL			X						X
PEDIASTRUM TETRAS V. TETRAODON										
PENNATE DIATOM	COL					0.5	308			
PENNATE DIATOMS	CEL		1.6	612		0.5	308			
PHORMIDIUM MUCICOLA	CEL									
RAPHIDIOPSIS	COL		2.0	735					1.3	1347
RAPHIDIOPSIS CURVATA	FIL									
SCENEDESMUS #2	COL		2.4	918			X		0.4	385
SCENEDESMUS #3	COL									
SCENEDESMUS ABUNDANS	COL					0.3	154			
SCENEDESMUS BICAUDATUS	COL						X			
SCENEDESMUS DIMORPHUS	COL			X			X		0.4	385
SCENEDESMUS PERFORATUS	COL			X						
SCENEDESMUS QUADRICAUDA	COL		0.2	61						
	COL			X			X			

LAKE NAME: LAKE OORA
STOREY NUMBER: 1208

CONTINUED

TAXA	FORM	03 12 73 S	03 12 73 BC	03 12 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 BC	09 06 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 BC	11 05 73 ALGAL UNITS PER ML
SCENEDESMUS SPP.	COL		2.4	918						
SPERMATOZOOPSIS	CEL		1.1	429						
STAURASTRUM	CEL			X						
STAURASTRUM #1	CEL					0.8	462		0.2	192
STEPHANODISCUS	CEL			X						
SYNEDRA	CEL						X			
SYNEDRA ULNA	CEL			X						
TETRAEDRON #1	CEL								0.2	192
TETRAEDRON CAUDATUM V. LONGISPINUM	CEL			X						
TETRAEDRON GRACILE	CEL					0.3	154			X
TETRAEDRON MINIMUM	CEL			X		0.3	154			
TETRAEDRON MINIMUM V. SCROBICULATUM	CEL			X						
TETRAEDRON MUTICUM	CEL		0.2	61		0.3	154			X
TETRASTRUM STAUROGENIAEFORME	COL		0.3	122						
TOTAL				37588			59913			100672

LAKE NAME: LAKE EFFIE
STORET NUMBER: 1209

NYGAARD TROPHIC STATE INDICES

DATE	09 05 73	11 07 73
MYXOPHYCEAN	6.50 E	2.67 E
CHLOROPHYCEAN	15.5 E	9.67 E
EUGLENOPHYTE	0.07 ?	0.05 ?
DIATOM	2.00 E	4.00 E
COMPOUND	24.5 E	14.3 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 05 73	11 07 73
GENUS	21	17
SPECIES	06	02

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 05 73	11 07 73
AVERAGE DIVERSITY	H	3.92	3.68
NUMBER OF TAXA	S	54.00	51.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	5.75	5.67
TOTAL DIVERSITY	D	587870.64	333893.76
TOTAL NUMBER OF INDIVIDUALS/ML	N	149967.00	90732.00
EVENESS COMPONENT	J	0.68	0.65
MEAN NUMBER OF INDIVIDUALS/TAXA	L	2777.17	1779.06
NUMBER/ML OF MOST ABUNDANT TAXON	K	36383.00	17233.00

LAKE NAME: LAKE EFFIE
STORET NUMBER: 1209

CONTINUED

TAXA	FORM	09 05 73 %S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 07 73 %S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
ACTINASTRUM HANTZSCHII	COL		0.8	1155		0.2	183
ANABAENA	FIL		0.3	385			
ANKISTRODESMUS	CEL						X
ANKISTRODESMUS ?	CEL		0.5	770			
BOTRYOCOCCUS BRAUNII	COL			X			
CHLAMYCOMONAS	CEL						X
CHLOROGONIUM	CEL		0.6	963			
CHLOROPHYTAN COLONY	COL					6.9	6233
CHROOCOCCUS	COL	5	5.5	8278		1.2	1099
CHROOCOCCUS #2	COL		2.4	3658			
CLOSTERIDIUM ?	CEL						X
CLOSTERIUM	CEL			X			
CLOSTERIUM #1	CEL						X
CLOSTERIUM #2	CEL						X
CLOSTERIUM GRACILE	CEL			X			
COELASTRUM	COL			X			
COELASTRUM SPHAERICUM	COL			X			
COSMARIUM	CEL						X
CRUCIGENIA CRUCIFERA	COL		0.6	963			X
CRUCIGENIA IRREGULARIS	COL					1.0	917
CRUCIGENIA TETRAPEDIA	COL			X			
CYCLOTELLA ATOMUS	CEL				11	19.0	17233
CYCLOTELLA MENEGHINIANA	CEL	1	24.3	36383		1.8	1650
DACTYLOCOCCOPSIS	CEL		0.8	1155		5.3	4767
DICTYOSPHAERIUM PULCHELLUM	COL			X		1.0	917
DINOFLAGELLATE	CEL					0.2	183
EUGLENA	CEL		0.4	578		0.2	183
FLAGELLATES	CEL	3	8.2	12320	3	12.9	11733
GOLENKINIA PAUCISPINA	CEL					0.2	183
GOLENKINIA RADIATA	CEL		0.9	1348			
KIRCHNERIELLA	CEL		5.9	8855			
KIRCHNERIELLA CONTORTA	COL					0.2	183
KIRCHNERIELLA OBESA	CEL					0.6	550
MELOSIRA #2	CEL						X
MELOSIRA DISTANS	CEL		0.8	1155		0.6	550
MERISMOPEDIA MINIMA	COL		0.8	1155			
MERISMOPEDIA PUNCTATA	COL					0.2	183
MERISMOPEDIA TENUISSIMA	COL		4.9	7315	2	18.6	16863
MICROCYSTIS AERUGINOSA	COL			X			
MICROCYSTIS INCERTA	COL		3.3	5005		4.8	4400
OSCILLATORIA #1	FIL				4	7.9	7146
OSCILLATORIA #2	FIL					1.0	917
OSCILLATORIA AMPHIBIA ?	FIL		1.2	1733			
OSCILLATORIA ANGUSTA	FIL		3.9	5775			
OSCILLATORIA SUBBREVIS	FIL		0.6	963			
PEDIASTRUM BORYANUM	COL		0.1	193			
PEDIASTRUM DUPLEX	COL		0.4	578			
PEDIASTRUM DUPLEX V. RETICULATUM	COL	4	5.5	8278			X
PEDIASTRUM SIMPLEX	COL			X			
PEDIASTRUM TETRAS V. TETRADON	COL						X
PENNATE DIATOM	CEL			X			
PENNATE DIATOMS	CEL					0.2	183
PHACUS	CEL		0.1	193			
PHACUS PYRUM	CEL		0.1	193			X
QUADRIGULA	COL						X
RAPHIDIOPSIS	FIL						X
RAPHIDIOPSIS #1	FIL		1.3	1925			
RAPHIDIOPSIS MEDITERRANEA	FIL		0.5	770			
SCENEDESMUS #1	COL	2	16.6	24832	5	6.7	6044
SCENEDESMUS #2	COL		0.3	385			
SCENEDESMUS #3	COL					3.2	2933
SCENEDESMUS ABUNDANS	COL					2.6	2383
SCENEDESMUS ACUMINATUS	COL		1.3	1925		0.6	550
SCENEDESMUS ACUMINATUS V. BERNARDII	COL		3.5	5198			X
SCENEDESMUS ARCUATUS	COL						X
SCENEDESMUS BACILIFORMIS	COL		0.1	193			X
SCENEDESMUS GRANULATUS	COL					0.2	183
SCENEDESMUS GRANULATUS ?	COL		1.0	1540			
SCENEDESMUS QUADRICAUDA V. LONGISPINA	COL		1.3	1925			
SCHROEDERIA	CEL			X			
SELENASTRUM	CEL			X			
SELENASTRUM WESTII	COL					0.2	183
TETRAEDRON #1	CEL		0.5	770		1.4	1283
TETRAEDRON CAUDATUM	CEL			X			

LAKE NAME: LAKE EFFIE
STORET NUMBER: 1209

CONTINUED

TAXA	FORM	09 05 73 S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
TETRAEDRON GRACILE	CEL						X
TETRAEDRON MINIMUM	CEL					0.4	367
TETRAEDRON MINIMUM V. SCROBICULATUM	CEL		0.4	578			
TETRAEDRON MUTICUM	CEL		0.1	193		0.2	183
TETRAEDRON REGULARE V. INCUS F. MAJOR	CEL					0.4	367
TETRAEDRON TUMIDULUM	CEL		0.1	193			
TETRAEDRON VICTORIAE V. MAJOR	CEL						X
TETRASTRUM ELEGANS	COL			X			X
TETRASTRUM HETERACANTHUM	COL			X			X
TREUBARIA	CEL		0.1	193			
TOTAL				149357			90732

LAKE NAME: LAKE GEORGE
STORET NUMBER: 1210

NYGAARD TROPHIC STATE INDICES

DATE	03 10 73	09 01 73	11 08 73
MYXOPHYCEAN	5.00 E	10.0 E	13/0 E
CHLOROPHYCEAN	8.50 E	10.0 E	12/0 E
EUGLENOPHYTE	0/27 ?	0.05 ?	0.04 ?
DIATOM	0.75 E	2.00 E	2.00 E
COMPOUND	16.5 E	27.0 E	32/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 10 73	09 01 73	11 08 73
GENUS	15	15	19
SPECIES	02	02	02

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 10 73	09 01 73	11 08 73
AVERAGE DIVERSITY	H	3.90	3.74	3.97
NUMBER OF TAXA	S	49.00	37.00	48.00
NUMBER OF SAMPLES COMPOSITED	M	5.00	5.00	3.00
MAXIMUM DIVERSITY	MAXH	5.61	5.21	5.58
TOTAL DIVERSITY	D	12932.40	154230.12	142860.45
TOTAL NUMBER OF INDIVIDUALS/ML	N	3316.00	41238.00	35985.00
EVENESS COMPONENT	J	0.70	0.72	0.71
MEAN NUMBER OF INDIVIDUALS/TAXA	L	67.67	1114.54	749.69
NUMBER/ML OF MOST ABUNDANT TAXON	K	648.00	8408.00	9907.00

LAKE NAME: LAKE GEORGE
STOREY NUMBER: 1210

CONTINUED

TAXA	FORM	03 10 73 S	03 10 73 %C	03 10 73 ALGAL UNITS PER ML	09 01 73 S	09 01 73 %C	09 01 73 ALGAL UNITS PER ML	11 08 73 S	11 08 73 %C	11 08 73 ALGAL UNITS PER ML
ACTINASTRUM HANTZSCHII	COL			X			X		0.6	202
AMPHORA	CEL			X						
ANABAENA #1	FIL		2.8	93						
ANABAENA #2	FIL			X						
ANABAENOPSIS ? #1	FIL		0.5	15						
ANABAENOPSIS #1	FIL				2	12.1	5005			
ANABAENOPSIS TANGANYIKAE	FIL					0.5	200			X
ANKISTRODESMUS FALCATUS	CEL			X						
APHANOCAPSA	COL								1.1	404
CARTERIA	CEL									X
CHLAMYDOMONAS #1	CEL								0.6	202
CHLAMYDOMONAS #2	CEL								1.1	404
CHLOROGONIUM	CEL								0.6	202
CHLOROPHYTAN FLAGELLATE	CEL								0.6	202
CHROCOCCUS	COL									X
CHROOCOCCUS #1	COL					4.4	1801			
CLOSTERIUM	CEL		0.5	15						
COELASTRUM MICROPORUM	COL								0.6	202
COELASTRUM SPHAERICUM	COL			X						
COSCINODISCUS	CEL					0.5	200		2.8	1011
COSCINODISCUS LACUSTRIS	CEL			X						
COSCINODISCUS ROTHII V. SUBSALSA	CEL			X						
COSCINODISCUS SPP.	CEL	1	19.5	648						
COSMARIUM	CEL		0.9	31			X			
CRYPTOMONAS	CEL						X		1.1	404
CRYPTOMONAS EROSA	CEL		2.8	93						
CYANOPHYTAN FILAMENT	FIL					1.0	400		2.2	809
CYCLOTELLA #1	CEL				1	20.4	8408		3.9	1415
CYCLOTELLA MENEGHINIANA	CEL	2	18.6	617		4.4	1801		2.2	809
DACTYLOCOCCOPSIS	CEL		1.9	62	5	8.7	3604		2.2	809
DICHOTOMOCOCCUS	COL						X			
DICTYOSPHAERIUM PULCHELLUM	COL		0.5	15						
DINOFLAGELLATE	CEL						X			
DINOFLAGELLATE #1	CEL									X
DINOFLAGELLATE #2	CEL									X
EPITHEMIA	CEL			X						X
FLAGELLATE	CEL					3.4	1402			
FLAGELLATE #1	CEL	5	6.5	216				4	7.1	2547
FLAGELLATE #2	CEL								3.0	1092
FLAGELLATE #3	CEL							3	11.1	4003
FRAGILARIA	CEL		2.8	93						
FRAGILARIA CONSTRUENS	CEL			X			X			
FRANCEIA	CEL						X			
FRANCEIA DROESCHERI	CEL									X
GYMNODINIUM ORDINATUM	CEL			X						
KIRCHNERIELLA	CEL					1.0	400			
KIRCHNERIELLA CONTORTA	CEL								0.6	202
LAGERHEIMIA	CEL		0.9	31						
LYNGBYA CIRCUMCRETA	FIL		3.3	109						
LYNGBYA CONTORTA	FIL								2.2	809
LYNGBYA LAGERHEIMII	FIL					2.5	1201			
LYNGBYA LIMNETICA	FIL		1.9	62	4	8.3	3403			
MELOSIRA #2	CEL						X			
MELOSIRA #4	CEL		1.4	46		2.9	1201			X
MELOSIRA DISTANS	CEL						X		3.9	1415
MELOSIRA GRANULATA	CEL	3	10.7	355						
MELOSIRA GRANULATA ?	CEL									X
MELOSIRA GRANULATA V. ANGUSTISSIMA	CEL	4	4.6	154						
MERISMOPEDIA MINIMA	COL									
MERISMOPEDIA TENUISSIMA	COL		1.4	46					3.9	1415
MESOSTIGMA VIRIDIS	CEL			X						X
MICRACTINIUM	COL									X
MICROCYSTIS AERUGINOSA	COL		0.9	31						
MICROCYSTIS INCERTA	COL		0.9	31		0.5	200		1.7	507
NITZSCHIA	CEL		7.4	247						
NITZSCHIA #1	CEL					4.9	2002		0.6	202
NITZSCHIA #2	CEL					1.5	601			
NITZSCHIA AMPHIBIA	CEL			X						
OOCYSTIS	CEL			X						
OSCILLATORIA AMPHIGRANULATA	FIL					6.3	2603		0.6	202
OSCILLATORIA LIMNETICA	FIL		2.8	93	3	12.6	5205	1	27.5	9907
OSCILLATORIA SUBBREVIS	FIL									X
PANDORINA MORUM	COL						X			
PEDIASTRUM DUPLEX V. ?	COL			X						
PEDIASTRUM TETRAS V. TETRAODON	COL			X						
PENNATE DIATOM	CEL			X						

LAKE NAME: LAKE GEORGE
STORET NUMBER: 1210

CONTINUED

TAXA	FORM	03 10 73 S	03 10 73 SC	03 10 73 ALGAL UNITS PER ML	09 01 73 S	09 01 73 SC	09 01 73 ALGAL UNITS PER ML	11 08 73 S	11 08 73 SC	11 08 73 ALGAL UNITS PER ML
PENNATE DIATOM #1	CEL								0.6	202
PERIDINIUM PENARDIFORME	CEL		0.5	15						
PHACUS	CEL						X			X
PTEROMONAS	CEL								0.6	202
PTEROMONAS ANGULOSA	CEL							5	4.0	1456
QUADRIGULA	CEL								0.6	202
RAPHIDIOPSIS MEDITERRANEA	FIL							2	9.0	3235
SCENEDESMUS	COL					0.5	200			
SCENEDESMUS #1	COL									X
SCENEDESMUS #2	COL								1.7	606
SCENEDESMUS ABUNDANS	COL		2.3	77		1.0	400			
SCENEDESMUS ACUMINATUS	COL					0.5	200			X
SCENEDESMUS ARCUATUS	COL		1.4	46						
SCENEDESMUS ARMATUS V. BICALDATUS	COL			X						
SCENEDESMUS BICAUDATUS	COL		0.5	15						
SCENEDESMUS DENTICULATUS	COL			X						
SCENEDESMUS DIMORPHUS	COL		0.5	15						
SCENEDESMUS INTERMEDIUS	COL									X
SCENEDESMUS OPOLIENSIS	COL		0.9	31						
SCHROEDERIA SETIGERA	CEL						X			
SPERMATOZOOPSIS	CEL						X			
SYNEDRA	CEL			X						
TETRAEDRON CAUDATUM V. LONGISPINUM	CEL			X						
TETRAEDRON MINIMUM	CEL					1.5	601			
TETRAEDRON MUTICUM	CEL								0.6	202
TETRAEDRON TRIGONUM V. MINOR	CEL						X			
TETRASTRUM	COL					0.5	200			
TETRASTRUM STAUROGENIAEFORME	COL		0.5	15					1.1	404
TOTAL				3316			41238			35985

LAKE NAME: LAKE GIBSON
STORET NUMBER: 1211

NYGAARD TROPHIC STATE INDICES

DATE	03 08 73	09 04 73	11 06 73
MYXOPHYCEAN	1.75 E	3.25 E	3.00 E
CHLOROPHYCEAN	5.75 E	5.50 E	6.00 E
EUGLENOPHYTE	0.03 ?	0.03 ?	0.07 ?
DIATOM	0.60 E	1.00 E	2.00 E
COMPOUND	8.50 E	9.50 E	10.3 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 08 73	09 04 73	11 06 73
GENUS	18	08	06
SPECIES	05	04	04

SPECIES DIVERSITY AND ABUNDANCE INDICES

	DATE	03 08 73	09 04 73	11 06 73
AVERAGE DIVERSITY	H	4.02	3.91	3.40
NUMBER OF TAXA	S	58.00	50.00	37.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	2.00	3.00
MAXIMUM DIVERSITY	MAXH	5.86	5.64	5.21
TOTAL DIVERSITY	D	65674.74	72831.57	122138.20
TOTAL NUMBER OF INDIVIDUALS/ML	N	16337.00	18627.00	35923.00
EVENESS COMPONENT	J	0.69	0.69	0.65
MEAN NUMBER OF INDIVIDUALS/TAXA	L	281.67	372.54	970.89
NUMBER/ML OF MOST ABUNDANT TAXON	K	3917.00	5226.00	11037.00

LAKE NAME: LAKE GIBSON
STORET NUMBER: 1211

CONTINUED

TAXA	FORM	03 08 73 S	03 08 73 %C	03 08 73 ALGAL UNITS PER ML	09 04 73 S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
ACTINASTRUM HANTZSCHII	COL						X			
ANABAENA	FIL			X						
ANABAENA #1	FIL					2.0	380			
ANABAENA #2	FIL					1.0	190		1.4	513
ANKISTRODESMUS	CEL					1.5	285			
ANKISTRODESMUS FALCATUS	CEL		1.4	226						X
APHANOCAPSA	COL					1.0	190			
APHANOCAPSA DELICATISSIMA	COL								5.7	2053
APHANOTHECE	COL					0.5	95			
CENTRIC DIATOM	CEL					5.6	1046			
CENTRIC DIATOMS	CEL								4.6	1668
CHLAMYDOMONAS #1	CEL	5	4.4	718						
CHROOCOCCUS	COL		3.2	518		1.0	190			
CHROOCOCCUS DISPERSUS	COL						X	4	7.9	2823
CHROOCOCCUS LIMNETICUS	CEL		0.4	65						X
CHRYSOPHYTAN CELL	CEL						X			
CLOSTERIUM	COL									X
COELASTRUM	COL		0.4	65						
COELASTRUM CAMBRICUM	COL						X			X
V. INTERMEDIUM	CEL		0.4	65		1.0	190		0.4	128
COELASTRUM MICROPORUN	COL					1.0	190			
COSMARIUM	COL		0.6	97						X
CRUCIGENIA ? FENESTRATA	COL		2.4	388						
CRUCIGENIA RECTANGULARIS	CEL	3	0.7	122						
CRUCIGENIA TETRAPEDIA	CEL		0.8	129						
CRUCIGENIA TRUNCATA	CEL		4.0	647					0.4	128
CRYPTOMONAS EROSA	COL					2.6	475			
CYCLOTELLA MENEGHINIANA	COL						X		2.5	893
DACTYLOCOCCOPSIS	CEL			X					0.4	128
DICTYOSPHAERIUM	CEL					1.0	190			
DICTYOSPHAERIUM PULCHELLUM	CEL					0.5	95			
DINOFLAGELLATE	CEL			X						
DINOFLAGELLATE #1	CEL		0.8	129						X
DINOFLAGELLATE #2	CEL	2	23.4	3817		4.1	760			X
EUASTRUM	CEL		2.6	421	3	10.2	1901			
EUGLENA	CEL						X			
FLAGELLATE #1	CEL							1	30.7	11037
FLAGELLATE #2	CEL		0.2	32						
FLAGELLATE #3	CEL			X						
FLAGELLATES	CEL		0.6	97						X
GLENODINIUM OCULATUM	COL									X
GOLEMKINIA	CEL		1.6	259			X			
GOLEMKINIA PAUCISPINA	CEL			X						
GOLEMKINIA RADIATA	CEL		2.6	421						
GONIUM	CEL								2.1	770
GYMNODINIUM ORDINATUM	CEL								0.4	128
KEPHYRION ?	FIL		2.8	453		1.5	285			
KIRCHNERIELLA	FIL					1.0	190		1.8	641
KIRCHNERIELLA CONTORTA	FIL				1	29.1	5228	5	6.4	2310
KIRCHNERIELLA OBESA	CEL		1.9	291						
LYNGBYA	CEL							3	11.1	3978
LYNGBYA #1	CEL				5	4.1	760			
LYNGBYA LIMNETICA	CEL	4	9.3	1359						
MALLOMONAS ACARCIDES	CEL		4.2	679						
MELOSIRA	COL					3.1	570			
MELOSIRA #2	CCL		0.6	97		2.0	380		0.7	257
MELOSIRA DISTANS	COL		0.6	100	2	11.2	2091	2	15.0	5390
MELOSIRA GRANULATA	CEL			X						
MERISMOPEDIA MINIMA	CEL			X						
MERISMOPEDIA TENUISSIMA	CEL			X						
MICROCYSTIS INCERTA	CEL		0.4	65			X			
NAVICULA #1	FIL			X						
NAVICULA #2										
NITZSCHIA	COL		0.2	32						
OOCYSTIS										
OSCILLATORIA ?	COL						X			
PEDIASTRUM DUPLEX										
V. CLATHRATUM	COL			X						X
PEDIASTRUM DUPLEX	CEL		0.2	32						
V. RETICULATUM	CEL					1.5	285			
PEDIASTRUM TETRAS	CEL					1.0	190			
V. TETRADON	CEL		2.4	388					0.7	257
PENNATE DIATOM	CEL						X			X
PENNATE DIATOM #1	CEL			X						
PENNATE DIATOM #2	CEL		0.8	129						
PENNATE DIATOMS	FIL						X			
PHACUS PYRUM	COL				4	7.1	1331			
PSEUDOKEPHYRION ?	COL					1.5	285			
PTEROMONAS ANGULOSA										
RAPHIDIOPSIS										
SCENEDESMUS #1										
SCENEDESMUS #2										

LAKE NAME: LAKE GIBSON
STORET NUMBER: 1211

CONTINUED

TAXA	FORM	03 08 73 S	03 08 73 %C	03 08 73 ALGAL UNITS PER ML	09 04 73 S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
SCENEDESMUS #4	COL									
SCENEDESMUS ABUNDANS	COL			X		0.5	95			
SCENEDESMUS ACUMINATUS V. BERNARDII	COL									
SCENEDESMUS ARCUATUS	COL						X			
SCENEDESMUS ARCUATUS V. PLATYDISCA	COL					0.5	95			
SCENEDESMUS BICAUDATUS	COL									
SCENEDESMUS BIJUGA	COL			X				1.4		513
SCENEDESMUS CARINATUS	COL			X						
SCENEDESMUS DENTICULATUS	COL			X						
SCENEDESMUS ECORNIS V. DISCIFORMIS	COL			X						
SCENEDESMUS QUADRICAUDA	COL			X						
SCENEDESMUS SPP.	COL			X						
SCHROEDERIA SETIGERA	COL	11	19.0	3106		0.5	95		3.6	1283
SELENASTRUM GRACILE	CEL		0.2	32						
SPERMATOZOOPSIS EXULTANS	COL									
STAURASTRUM #1	CEL		2.4	388			X			
STAURASTRUM #2	CEL									
STAURASTRUM #3	CEL			X			X			X
STAURASTRUM SPP.	CEL			X			X			
TETRAEDRON #1	CEL		0.6	97						
TETRAEDRON CONSTRICTUM	CEL					1.5	285			
TETRAEDRON GRACILE	CEL		0.6	97						
TETRAEDRON MINIMUM	CEL		1.2	194			X		0.4	128
TETRAEDRON MINIMUM V. SCROBICULATUM	CEL					0.5	95		0.4	128
TETRAEDRON MUTICUM	CEL		0.6	97						
TETRAEDRON REGULARE V. INCUS	CEL						X			
TETRAEDRON TRIGONUM V. GRACILE	CEL								1.1	385
TETRASTRUM ELEGANS ?	CEL		2.8	453						
TETRASTRUM HETERACANTHUM	COL						X		0.4	128
TREUBARIA	COL		0.2	32		1.0	190		0.4	128
	CEL						X		0.4	128
TOTAL				16337			18627			35923

LAKE NAME: GLENADA LAKE
STORET NUMBER: 1212

NYGAARD TROPHIC STATE INDICES

DATE	09 05 73	11 07 73
MYXOPHYCEAN	2.60 E	5.50 E
CHLOROPHYCEAN	5.40 E	12.0 E
EUGLENOPHYTE	0.02 ?	0.03 ?
DIATOM	1.00 E	2.00 E
COMPOUND	8.80 E	19.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 05 73	11 07 73
GENUS	16	18
SPECIES	04	03

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 05 73	11 07 73
AVERAGE DIVERSITY	H	4.36	3.40
NUMBER OF TAXA	S	54.00	47.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00
MAXIMUM DIVERSITY	MAXH	5.75	5.55
TOTAL DIVERSITY	D	77887.04	220143.20
TOTAL NUMBER OF INDIVIDUALS/ML	N	17864.00	64748.00
EVENESS COMPONENT	J	0.76	0.61
MEAN NUMBER OF INDIVIDUALS/TAXA	L	330.81	1377.62
NUMBER/ML OF MOST ABUNDANT TAXON	K	3234.00	16940.00

LAKE NAME: GLENADA LAKE
STORET NUMBER: 1212

CONTINUED

TAXA	FORM	09 05 73 S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
ACTINASTRUM HANTZSCHII V. FLUVIATILE	COL						X
ANABAENA	FIL					0.2	110
ANABAENA #1	FIL		2.6	462		0.7	440
ANABAENA #2	FIL			X			
ANABAENA #3	FIL			X			
ANABAENOPSIS	FIL					0.2	110
ANKISTRODESMUS FALCATUS	CEL				4	6.6	4248
BOTRYOCOCCUS BRAUNII	COL		1.7	308			
CENTRIC DIATOMS	CEL					4.1	2640
CERATIUM CORNUTUM ?	CEL						X
CERATIUM HIRUNDINELLA	CEL			X			
CHLAMYDOMONAS	CEL						X
CHLOROGONIUM	CEL						
CHROOCOCCUS	COL					0.5	330
CHROOCOCCUS DISPERSUS	COL				2	13.6	8800
CHROOCOCCUS LIMNETICUS	COL		4.3	770			
CLOSTERIUM	COL		0.9	154			
COELASTRUM	CEL		1.7	308			
COELASTRUM MICROPORUM	COL			X			
COELASTRUM PROBOSCIDEUM	COL						
COSMARIUM #1	COL		2.6	462			X
COSMARIUM #2	CEL			X			
CRUCIGENIA CRUCIFERA	CEL			X			
CRUCIGENIA TETRAPEDIA	COL			X			
CYANOPHYTAN FILAMENT	COL						
CYCLOTELLA #1	FIL		0.9	154			X
CYCLOTELLA #2	CEL		4.3	770			
DACTYLOCOCCOPSIS	CEL			X			
DICTYOSPHAERIUM	CEL	4	6.9	1232	3	20.0	12980
DICTYOSPHAERIUM PULCHELLUM	COL		4.3	770		0.3	220
ELAKATOTHRIX	COL			X			
EUASTRUM	COL			X			
EUGLENA	CEL			X			X
FLAGELLATES	CEL						X
FRANCEIA TUBERCULATA	CEL	2	7.8	1386		0.3	220
GLENODINIUM	CEL					5.1	3300
GOLENKINIA	CEL						X
GOLENKINIA RADIATA	CEL					0.2	110
KIRCHNERIELLA	CEL			X			
KIRCHNERIELLA CONTORTA	CEL					0.3	220
KIRCHNERIELLA LUNARIS	CEL	5	6.0	1078		0.8	550
LAGERHEIMIA	CEL		5.2	924			
LYNGBYA #1	CEL			X			
LYNGBYA LAGERHEIMII	FIL					1.7	1100
LYNGBYA LIMNETICA	FIL		1.7	308			
MELOSIRA	FIL					1.2	770
MELOSIRA DISTANS	CEL					2.7	1760
MERISMOPEDIA	CEL		1.7	308			
MERISMOPEDIA MINIMA	COL					1.7	1100
MICRACTINIUM PUSILLUM	COL			X			
MICROCYSTIS	COL						X
MICROCYSTIS AERUGINOSA	COL				5	6.1	3960
MICROCYSTIS INCERTA	COL	3	6.0	1078			
NEPHROCYTIUM	COL	1	18.1	3234			
NITZSCHIA	COL			X			
OOCYSTIS	CEL		3.4	616			
OOCYSTIS SUBMARINA	CEL					0.2	110
OSCILLATORIA	CEL		0.9	154			
OSCILLATORIA TRICHOIDES	FIL		0.9	154	1	20.2	16940
PEDIASTRUM DUPLEX V. GRACILIMUM	FIL			X			
PEDIASTRUM DUPLEX V. RETICULATUM	COL						X
PENNATE DIATOMS	COL			X			
PHACUS PYRUM	CEL						X
RAPHIDIOPSIS INDICA	CEL			X		2.7	1760
SCENEDESMUS #1	FIL						
SCENEDESMUS ABUNDANS	COL					0.2	110
SCENEDESMUS ACUMINATUS	COL		1.7	308			X
SCENEDESMUS ACUMINATUS V. BERNARDII	COL		2.6	462			
SCENEDESMUS ARCUATUS V. PLATYDISCA	COL		0.9	154			
SCENEDESMUS BICAUDATUS	COL						X
SCENEDESMUS DENTICULATUS	COL		1.7	308			
SCENEDESMUS GRANULATUS F. DISCIFORMIS	COL		0.9	154			
SCENEDESMUS OPOLIENSIS	COL		0.9	154			
SCENEDESMUS QUADRICAUDA	COL						
	COL		3.4	616			X
	COL			X			
	COL		3.4	616			X

LAKE NAME: GLENADA LAKE
STORET NUMBER: 1212

CONTINUED

TAXA	FORM	09 05 73 S	09 05 73 BC	09 05 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 BC	11 07 73 ALGAL UNITS PER ML
SCENEDESMUS SPP.	COL					3.2	2090
SCHROEDERIA	CEL						X
SELENASTRUM	COL						X
STAURASTRUM	CEL			X		0.2	110
STAURONEIS	CEL			X			
SYNEDRA	CEL			X			
TETRAEDRON	CEL			X			
TETRAEDRON CAUDATUM V. LONGISPINUM	CEL					0.2	110
TETRAEDRON GRACILE	CEL						X
TETRAEDRON MINIMUM	CEL		2.6	462			
TETRAEDRON REGULARE V. GRANULATA	CEL					0.2	110
TETRASTRUM ELEGANS	COL			X		0.5	330
TETRASTRUM HETERACANTHUM	COL			X			
TRELEARIA	CEL					0.2	110
TOTAL				17864			64748

LAKE NAME: LAKE GRIFFIN
STORET NUMBER: 1214

NYGAARD TROPHIC STATE INDICES

DATE	03 14 73	09 06 73	11 05 73
MYXOPHYCEAN	3.20 E	2.80 E	2.40 E
CHLOROPHYCEAN	2.40 E	3.20 E	4.20 E
EUGLENOPHYTE	0.07 ?	0.03 ?	0.06 ?
DIATOM	0.60 E	1.50 E	2.00 E
COMPOUND	6.60 E	6.80 E	7.40 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 14 73	09 06 73	11 05 73
GENUS	26	14	06
SPECIES	07	04	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 14 73	09 06 73	11 05 73
AVERAGE DIVERSITY	H	2.83	2.27	2.90
NUMBER OF TAXA	S	52.00	46.00	46.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	3.00	3.00
MAXIMUM DIVERSITY	MAXH	5.70	5.52	5.52
TOTAL DIVERSITY	D	351474.69	682475.50	996268.90
TOTAL NUMBER OF INDIVIDUALS/ML	N	124196.00	300650.00	343541.00
EVENESS COMPONENT	J	0.50	0.41	0.53
MEAN NUMBER OF INDIVIDUALS/TAXA	L	2388.38	6535.87	7468.28
NUMBER/ML OF MOST ABUNDANT TAXON	K	42450.00	133350.00	174650.00

LAKE NAME: LAKE GRIFFIN
STOREY NUMBER: 1214

CONTINUED

TAXA	FORM	03 14 73 S	03 14 73 %C	03 14 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
ACHNANTHES	CEL				4	4.4	13300			
ANABAENA	FIL						X		0.6	2100
ANKISTRODESMUS FALCATUS	CEL		0.2	204						
APHANIZOMENON FLOS-AQUAE	FIL		0.7	916						
APHANOCAPSA DELICATISSIMA	COL					1.5	4550			
APHANOTHECE	COL					.6	1750			
APHANOTHECE #1	COL							2	5.9	20300
APHANOTHECE #2	COL								0.9	3150
APHANOTHECE CLATHRATA	COL			X						
APHANOTHECE SAXICOLA	COL						X			
APHANOTHECE SAXICOLA ?	COL	5	2.0	2443						
CENTRIC DIATOM	CEL						X		0.6	2100
CERATIUM HIRUNDINELLA	CEL									X
CERATIUM HIRUNDINELLA F. FURCOIDES	CEL			X						
CHLOROPHYTAN COCCOID CELL	CEL			X						
CHLOROPHYTAN COCCOID CELLED COLONY	CEL			X						
CHROOCOCCUS	COL					1.4	4200	5	3.9	13300
CHROOCOCCUS PRESCOTTII ?	COL								0.7	2450
CLOSTERIUM	CEL						X			X
COSMARIUM	CEL			X		0.1	350			X
CRUCIGENIA	COL									X
CRUCIGENIA APICULATA	COL						X			
CRUCIGENIA TETRAPEDIA	COL								0.1	350
CRYPTOMONAS EROSA	CEL		0.6	713						
CYANOPHYTAN COCCOID CELLED COLONY	CEL			X						
CYANOPHYTAN COLONY SPP.	COL	1	26.5	32891						
CYANOPHYTAN FILAMENT #1	FIL				3	2.8	8400		5.5	18900
CYCLOTELLA #1	CEL					0.9	2800			
CYCLOTELLA MENEGHINIANA	CEL			X						
DACTYLOCOCCOPSIS	CEL					0.3	1050	4	6.1	20981
DACTYLOCOCCOPSIS IRREGULARIS	CEL		7.0	8755						
DICTYOSPHAERIUM	COL					0.1	350			
DICTYOSPHAERIUM PULCHELLUM	COL			X			X			
DINOFLAGELLATE	CEL						X			
DINOFLAGELLATE #1	CEL						X		0.2	700
DINOFLAGELLATE #2	CEL						X			
ELAKTHUM	CEL						X			
EUGLENA	CEL									X
EUGLENA #1	CEL		0.2	305						X
EUGLENA #2	CEL			X						
FLAGELLATES	CEL					1.0	3150		3.5	11900
GLENODINIUM GYMNODINIUM	CEL		0.1	102						
GOLENKINIA RADIATA	CEL								0.1	350
GYMNODINIUM ORDINATUM	CEL			X						
KIRCHNERIELLA	CEL								1.2	4200
KIRCHNERIELLA OBESA	CEL						X			X
LAGERHEIMIA	CEL									X
LAGERHEIMIA SUBSALSA	CEL					0.1	350			
LYNGBYA #1	FIL	2	34.2	42450		0.1	350			
LYNGBYA CONTORTA	FIL	4	5.7	7024						
LYNGBYA LAGERHEIMII	FIL				5	2.2	6650		3.9	13300
LYNGBYA LIMNETICA	FIL	3	12.6	15677	1	44.4	133350	1	50.8	174650
MALLOMONAS ACAROIDES	CEL		0.2	204						
MELOSIRA	CEL		0.3	407		0.2	700		1.4	4900
MELOSIRA DISTANS	CEL			X						
MERISMOPEDIA #1	COL								1.6	5600
MERISMOPEDIA #2	COL								0.8	2800
MERISMOPEDIA GLAUCA	COL		0.1	102						
MERISMOPEDIA PUNCTATA	COL					0.1	350			
MERISMOPEDIA TENUISSIMA	COL		1.1	1425						
MICROCYSTIS	COL							3	5.9	20300
MICROCYSTIS AERUGINOSA	COL			X						
MICROCYSTIS GLAUCA	COL		1.6	2036						
MICROCYSTIS INCERTA	COL					1.3	3850			
MOUGEOTIA	FIL			X						
NAVICULA #1	CEL			X						
NAVICULA #2	COL		0.1	102						
NAVICULA #3	CEL			X						
NITZSCHIA #1	CEL		0.7	914						
OOCYSTIS	CEL			X					0.2	700
OSCILLATORIA #1	FIL					0.6	1750			
OSCILLATORIA LIMNETICA	FIL		2.1	2647	2	35.5	106750			
PEDIASTRUM BORYANUM	COL			X			X			X
PEDIASTRUM DUPLEX ?	COL		0.1	102						
PEDIASTRUM DUPLEX V. CLATHRATUM	COL									X
PEDIASTRUM TETRAS	COL			X						
PEDIASTRUM TETRAS V. TETRAODON	COL						X		0.1	350
PENNATE DIATOM	CEL								3.9	13300
PERIDINIUM INCONSPICUUM	CEL		0.2	204						

LAKE NAME: LAKE GRIFFIN
STOREY NUMBER: 1214

CONTINUED

TAXA	FORM	03 14 73 S	03 14 73 %C	03 14 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
PERIDINIUM WISCONSINENSE	CEL					0.1	350			
PHACUS PYRUM	CEL						X			X
RAPHIDIOPSIS CURVATA	FIL		0.4	509						
SCENEDESMUS	COL					0.1	350		1.0	3380
SCENEDESMUS #1	COL						X			
SCENEDESMUS ABUNDANS	COL			X			X			X
SCENEDESMUS ACUMINATUS	COL									X
SCENEDESMUS BICAUDATUS	COL			X						
SCENEDESMUS BIJUGA	COL									X
SCENEDESMUS DIMORPHUS	COL		0.1	102						
SCENEDESMUS QUADRICAUDA	COL		0.3	407		0.1	350			X
SPIRULINA	CEL			X						
STAURASTRUM	CEL			X						
STAURASTRUM #1	CEL		0.9	611			X			X
STAURASTRUM #2	CEL			X			X			
STAURASTRUM #3	CEL			X			X			
STAURASTRUM CUSPIDATUM	CEL									X
SYNEDRA	CEL		2.3	2850		0.9	2800			
TETRAEDRON #1	CEL					0.3	1050			
TETRAEDRON #6	CEL								0.2	700
TETRAEDRON GRACILE	CEL			X						X
TETRAEDRON LIMNETICUM	CEL									
TETRAEDRON MINIMUM	CEL		0.2	204					0.7	2450
TETRAEDRON MINIMUM V. SCROBICULATUM	CEL					0.6	1750			
TETRAEDRON MUTICUM	CEL						X			
TETRAEDRON REGULARE	CEL									X
TETRAEDRON TRIGONUM	CEL						X			
TETRASTRUM	COL								0.1	350
TETRASTRUM STAUROGENIAEFORME	COL									X
TREUBARIA	CEL						X			
TOTAL				124196			300650			343541

LAKE NAME: LAKE HAINES
STORET NUMBER: 1215

NYGAARD TROPHIC STATE INDICES

DATE	09 06 73	11 07 73
MYXOPHYCEAN	6.00 E	5.00 E
CHLOROPHYCEAN	7.00 E	7.00 E
EUGLENOPHYTE	0.04 ?	0.11 ?
DIATOM	2.50 E	2.00 E
COMPOUND	16.0 E	14.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 06 73	11 07 73
GENUS	12	10
SPECIES	04	04

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 06 73	11 07 73
AVERAGE DIVERSITY	H	4.14	3.89
NUMBER OF TAXA	S	41.00	50.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	5.36	5.64
TOTAL DIVERSITY	D	79256.16	153942.86
TOTAL NUMBER OF INDIVIDUALS/ML	N	19144.00	39574.00
EVENESS COMPONENT	J	0.77	0.69
MEAN NUMBER OF INDIVIDUALS/TAXA	L	466.93	791.48
NUMBER/ML OF MOST ABUNDANT TAXON	K	3816.00	8746.00

LAKE NAME: LAKE MAINES
STORET NUMBER: 1215

CONTINUED

TAXA	FORM	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
ANABAENA	FIL					1.4	570
ANABAENA #1	FIL		1.8	341			X
ANABAENA #2	FIL						X
ANABAENOPSIS	FIL		3.2	613			
ANKISTRODESMUS FALCATUS	CEL						X
APHANOCAPSA	COL					0.5	190
APHANOTHECE	COL					0.2	95
CENTRIC DIATOM	CEL				2	13.9	5513
CHLAMYDOMONAS	CEL			X			X
CHLOROCOCCALEAN	COL					0.7	285
CHLOROPHYTAN COLONY	COL					2.6	1046
CHROOCOCCUS	COL		1.8	341	4	6.5	2567
CHROOCOCCUS ? PRESCOTTII	COL						X
CHRYSOPHYTAN FLAGELLATE	CEL						X
CLOSTERIUM	CEL					0.5	190
COSMARIUM	CEL		1.4	272		0.7	285
CRUCIGENIA FENESTRATA	COL						X
CRUCIGENIA TETRAPEDIA	COL					0.7	285
CYANOPHYTAN FILAMENT	FIL		0.7	136		2.9	1141
CYCLOTELLA #1	CEL		1.8	341			
CYCLOTELLA ATOMUS	CEL		3.2	613			
CYCLOTELLA STELLIGERA	CEL		1.4	272			
DACTYLOCOCCOPSIS	CEL		6.8	1295		5.3	2091
DACTYLOCOCCOPSIS FASCICULARIS	CEL						X
DINOFLAGELLATE	CEL		0.7	136			
EUASTRUM	CEL					1.0	380
EUASTRUM DENTICULATUM	CEL		0.4	68			
EUGLENA	CEL						X
FLAGELLATE	CEL					6.7	2661
FLAGELLATES	CEL	4	7.5	1431			
FRAGILARIA LEPTOSTAURON	CEL		2.1	409			
FRANCEIA DROESCHERI	CEL						X
GOLENKINIA	CEL					0.2	95
GOLENKINIA RADIATA	CEL		0.4	68			X
KIRCHNERIELLA	CEL					1.9	760
LEPOCINCLIS	CEL					0.2	95
LYNGBYA	FIL		2.5	477			
LYNGBYA #2	FIL				3	12.5	4543
LYNGBYA LIMNETICA	FIL	3	8.2	1567	1	22.1	8746
MELOSIRA	CEL	5	3.5	681	5	5.0	1996
MELOSIRA DISTANS	CEL	1	19.9	3816			
MERISMOPEDIA	COL					2.1	820
MERISMOPEDIA MINIMA	COL	2	13.5	2589			
MICROCYSTIS	COL					3.5	1400
MICROCYSTIS AERUGINOSA	COL		1.8	341			
MICROCYSTIS INCERTA	COL		3.6	681			
NAVICULA	CEL			X			
OOCYSTIS	CEL						X
OSCILLATORIA LIMNETICA	FIL		1.8	341			
PEDIASTRUM DUPLEX V. GRACILIMUM	COL						X
PEDIASTRUM DUPLEX V. RETICULATUM	COL			X			
PEDIASTRUM TETRAS V. TETRADON	COL		0.4	68			
PENNATE DIATOM	CEL					1.9	760
PHACUS	CEL					0.2	95
PHACUS PYRUM	CEL						X
PROTOCHRYSIS ?	CEL		0.7	136			
RAPHIDIOPSIS	FIL		5.3	1022		1.9	760
SCENEDESMUS	COL		1.8	341			
SCENEDESMUS #1	COL					0.2	95
SCENEDESMUS #2	COL		0.4	68			
SCENEDESMUS BRASILIENSIS	COL		0.4	68			
SCENEDESMUS DENTICULATUS	COL			X			
SCENEDESMUS DIMORPHUS	COL					0.2	95
SCENEDESMUS INTERMEDIUS V. BICAUDATUS	COL					0.2	95
SCENEDESMUS QUADRICAUDA	COL		1.1	204		1.7	665
SELENASTRUM ?	COL			X			
SPERMATOZOOPSIS	CEL			X			
TETRAEDRON #1	CEL		1.1	204		1.0	380
TETRAEDRON #2	CEL						X
TETRAEDRON ARTHRODESMIFORME V. CONTORTA	CEL		0.4	68			
TETRAEDRON CAUDATUM	CEL					0.7	285
TETRAEDRON GRACILE	CEL						X
TETRAEDRON REGULARE V. GRANULATA	CEL			X			X
TETRASTRUM ELEGANS	COL			X			X
TETRASTRUM GRACILE	COL					0.5	190
TRACHELOMONAS	CEL		0.7	136			
TREUBARIA	CEL			X			
TOTAL				19144			39574

LAKE NAME: LAKE HANCOCK
STORET NUMBER: 1217

NYGAARD TROPHIC STATE INDICES

DATE	03 14 73	09 04 73	11 06 73
MYXOPHYCEAN	10.0 E	7.00 E	13.0 E
CHLOROPHYCEAN	18.0 E	14.0 E	20.0 E
EUGLENOPHYTE	0/28 ?	0.10 ?	0.06 ?
DIATOM	0.33 E	0.25 ?	1.00 E
COMPOUND	30.0 E	24.0 E	38.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 14 73	09 04 73	11 06 73
GENUS	11	11	07
SPECIES	02	04	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 14 73	09 04 73	11 06 73
AVERAGE DIVERSITY	H	2.61	2.64	3.30
NUMBER OF TAXA	S	41.00	29.00	48.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	5.36	4.86	5.58
TOTAL DIVERSITY	D	97778.43	440439.12	752202.00
TOTAL NUMBER OF INDIVIDUALS/ML	N	37463.00	166833.00	227940.00
EVENESS COMPONENT	J	0.49	0.54	0.59
MEAN NUMBER OF INDIVIDUALS/TAXA	L	913.73	5752.86	4748.75
NUMBER/ML OF MOST ABUNDANT TAXON	K	20175.00	83417.00	67760.00

LAKE NAME: LAKE HANCOCK
STOREY NUMBER: 1217

CONTINUED

TAXA	FORM	03 14 73 S	03 14 73 BC	03 14 73 ALGAL UNITS PER ML	09 04 73 S	09 04 73 BC	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 BC	11 06 73 ALGAL UNITS PER ML
ACTINASTRUM	CEL		0.7	249						
AMPHORA	CEL			X						
ANABAENA	FIL									
ANABAENA #1	FIL					0.3	428			X
ANABAENA SPIROIDES ?	FIL		1.5	548					0.2	385
ANABAENOPSIS	FIL				5	3.3	5561		1.0	2310
APHANOCAPSA DELICATISSIMA	COL							2	11.7	26665
APHANOCAPSA FLACHISTA V. CONFERTA	COL	3	8.8	3288						
APHANOTHECE	COL		0.7	249						
APHANOTHECE ? CLATHRATA	COL									
CARTERIA	CEL		0.1	50						X
CENTRIC DIATOM	CEL									X
CHLAMYDOMONAS	CEL									X
CHLOROGONIUM	CEL									X
CHROOCOCCUS	COL			X	1	16.2	26950			X
CLOSTERIUM	CEL			X					1.7	3850
COSMARIUM	CEL						X			X
CRUCIGENIA	COL			X						
CRYPTOMONAS	CEL		0.3	100						
CYCLOTELLA	CEL					0.8	1283		1.4	3080
CYCLOTELLA MENEGHINIANA ?	CEL		0.1	50				3	21.4	48815
DACTYLOCOCCOPSIS	CEL		1.3	498						
DICTYOSPHAERIUM PULCHELLUM	COL		0.5	199					0.2	385
DINOFLAGELLATE	CEL						X			
EUGLENA	CEL		1.5	548						
FLAGELLATE #1	CEL								4.2	9625
FLAGELLATES	CEL			X			X			
FRAGILARIA	CEL						X			
FRAGILARIA CONSTRUENS	CEL						X			
GOLENKINIA	CEL			X					0.2	385
GOLENKINIA RADIATA	CEL									X
GYMNODINIUM	CEL			X					0.2	385
KIRCHNERIELLA	CEL					0.3	428			X
LAGERHEIMIA	FIL					1.0	1711	1	29.7	67760
LAGERHEIMIA CILIATA V. MINOR	FIL									
LYNGBYA #1	FIL	2	13.2	4932					2.5	5775
LYNGBYA CIRCUMCRETA	CEL		0.7	249	2	50.0	83417		5.7	13090
LYNGBYA CONTORTA	CEL								0.3	770
LYNGBYA LIMNETICA	CEL	5	3.6	1345						
MELOSIRA	COL					0.5	855			
MELOSIRA GRANULATA V. ANGUSTISSIMA	COL		1.2	448					0.8	1925
MERISMOPEDIA	COL	14	4.5	1694						X
MERISMOPEDIA MINIMA	COL					2.1	3422			
MERISMOPEDIA TENUISSIMA	CEL			X						X
MICROCYSTIS AERUGINOSA	CEL		1.7	648						
MICROCYSTIS INCERTA	CEL					4.1	6844			
NAVICULA	CEL					1.5	2567			
NITZSCHIA	COL		0.9	299						
NITZSCHIA #1	COL		0.8	299			X			X
NITZSCHIA #2	COL			X						
OOCYSTIS	CEL		0.9	299		2.3	3850		1.2	2695
PEDIASTRUM BORYANUM	CEL		0.1	50					0.5	1155
PEDIASTRUM DUPLEX V. RETICULATUM	CEL								2.9	6545
PEDIASTRUM TETRAS	CEL								0.2	385
PENNATE DIATOM #1	CEL					0.3	428			X
PENNATE DIATOM #2	COL		1.9	697						Y
PENNATE DIATOM #3	CEL		1.1	399						
PHACUS	COL				3	4.9	8128	4	4.2	9625
PHACUS PYRUM	COL							5	5.9	13475
PHORMIDIUM MUCICOLA	COL								1.2	2695
QUADRIGULA	COL									X
SCENEDESMUS #1	COL								1.2	2695
SCENEDESMUS #2	COL					2.8	4705			
SCENEDESMUS #3	COL					1.0	1711			
SCENEDESMUS #4	COL			X					0.2	385
SCENEDESMUS #5	COL			X						
SCENEDESMUS ABUNDANS	COL			X		0.3	428		0.5	1155
SCENEDESMUS ACUMINATUS	COL			X						
SCENEDESMUS DIMORPHUS	COL		53.9	20179	14	7.7	12833			
SCENEDESMUS OPOLIENSIS	CEL		0.1	50						
SCENEDESMUS PERFORATUS	CEL			X						
SCENEDESMUS PROTUBERANS										
SCENEDESMUS QUADRICAUDA										
SCENEDESMUS SPP.										
SCHROEDERIA SETIGERA										
STAURONEIS										

LAKE NAME: LAKE HANCOCK
STORET NUMBER: 1217

CONTINUED

TAXA	FORM	03 14 73 S	03 14 73 %C	03 14 73 ALGAL UNITS PER ML	09 04 73 S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
TETRADESMUS WISCONSINENSE	COL			X						
TETRAEDRON	CEL					0.3	428			X
TETRAEDRON CAUDATUM	CEL									X
TETRAEDRON GRACILE	CEL					0.3	428			
TETRAEDRON MINIMUM	CEL						X			X
TETRAEDRON MUTICUM	CEL		0.3	100						
TETRAEDRON PLANCTONICUM	CEL					0.3	428		0.8	1925
TETRAEDRON TRIGONUM	CEL						X			
TETRAEDRON TRIGONUM V. GRACILE	CEL									X
TETRAEDRON TUMIDULUM	CEL									X
TRFUBARIA	CEL									X
TOTAL				37463			166833			227940

LAKE NAME: LAKE HORSESHOE
STORET NUMBER: 1219

NYGAARD TROPHIC STATE INDICES

DATE	09 05 73	11 05 73
MYXOPHYCEAN	1.25 E	0.83 E
CHLOROPHYCEAN	1.25 E	0.67 ?
EUGLENOPHYTE	0/10 ?	0/09 ?
DIATOM	2.00 E	03/0 E
COMPOUND	3.00 E	2.00 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 05 73	11 05 73
GENUS	03	07
SPECIES	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 05 73	11 05 73
AVERAGE DIVERSITY	H	2.21	1.91
NUMBER OF TAXA	S	21.00	21.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	4.39	4.39
TOTAL DIVERSITY	D	13951.73	14571.39
TOTAL NUMBER OF INDIVIDUALS/ML	N	6313.00	7629.00
EVENESS COMPONENT	J	0.50	0.44
MEAN NUMBER OF INDIVIDUALS/TAXA	L	300.62	363.29
NUMBER/ML OF MOST ABUNDANT TAXON	K	3439.00	4940.00

LAKE NAME: LAKE HORSESHOE
STOREY NUMBER: 1219

CONTINUED

TAXA	FORM	09 05 73 S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
APHANOTHECE	COL						X
ARTHRODESMUS	COL			X		2.9	218
BOTRYOCOCCUS BRAUNII	COL	1	54.5	3439	1	64.8	4940
CHLOROPHYTAN FILAMENT	FIL			X			
CHROOCOCCUS	COL		2.4	154		1.0	73
CLOSTERIUM	CEL			X			
CLOSTERIUM SETACEUM	CEL						X
COELASTRUM	COL			X			
COELASTRUM MICROPORUM	COL						X
COELOSPHAERIUM ?	COL					1.9	145
COSMARIUM #1	CEL						X
COSMARIUM #2	CEL						X
CRYPTOMONAS	CEL		0.8	51			
CYCLOTELLA	CEL	4	4.9	308			
CYCLOTELLA STELLIGERA	CEL				5	3.8	291
DICTYOSPHAERIUM	COL						X
DICTYOSPHAERIUM PULCHELLUM	COL			X			
FLAGELLATE	CEL					3.8	291
FLAGELLATES	CEL	3	15.4	975			
KIRCHNERIELLA	CEL		2.4	154			
LUNATE CELLED COLONY	COL						X
LYNGBYA	FIL		1.6	103	2	13.3	1017
LYNGBYA LIMNETICA	FIL			X			
MELOSIRA	CEL	2	12.2	770			
MELOSIRA DISTANS	CEL				4	3.8	291
MELOSIRA GRANULATA	CEL				3	2.9	218
MICROCYSTIS AERUGINOSA	COL			X			X
MICROCYSTIS INCERTA	COL		2.4	154			
OPHIOCYTIUM CAPITATUM V. LONGISPINUM	CEL			X			X
PEDIASTRUM TETRAS V. TETRADON	COL			X			
PENNATE DIATOM	CEL	5	2.4	154			
SCENEDESMUS #1	COL					1.9	145
STAURASTRUM #1	CEL		0.8	51			X
STAURASTRUM #2	CEL			X			X
TOTAL				6313			7629

LAKE NAME: LAKE HOWELL
STORET NUMBER: 1220

NYGAARD TROPHIC STATE INDICES

DATE	03 15 73	09 05 73	11 05 73
MYXOPHYCEAN	10/0 E	08/0 E	5.00 E
CHLOROPHYCEAN	07/0 E	21/0 E	10.0 E
EUGLENOPHYTE	0.18 ?	0.03 ?	0/30 ?
DIATOM	0.67 E	0.67 E	1.00 E
COMPOUND	22/0 E	32/0 E	15.5 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 15 73	09 05 73	11 05 73
GENUS	15	24	11
SPECIES	04	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 15 73	09 05 73	11 05 73
AVERAGE DIVERSITY	H	2.72	3.41	2.78
NUMBER OF TAXA	S	36.00	40.00	41.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	4.91	5.32	5.36
TOTAL DIVERSITY	D	53271.20	123401.08	112167.44
TOTAL NUMBER OF INDIVIDUALS/ML	N	19585.00	36188.00	40348.00
EVENESS COMPONENT	J	0.55	0.64	0.52
MEAN NUMBER OF INDIVIDUALS/TAXA	L	652.83	904.70	984.10
NUMBER/ML OF MOST ABUNDANT TAXON	K	5042.00	8470.00	21560.00

LAKE NAME: LAKE POWELL
STORET NUMBER: 1220

CONTINUED

TAXA	FORM	03 15 73 IS	03 15 73 %C	03 15 73 ALGAL UNITS PER ML	09 05 73 IS	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 05 73 IS	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
ACHNANTHES	CEL			X						
ACTINASTRUM HANTZSCHII	COL						X			
ANABAENA	FIL		0.9	00167						
ANABAENOPSIS	FIL						X			
ANABAENOPSIS ELENKINII	FIL	5	3.0	593						
ARKISTRODESMUS	CEL					1.1	385			
ARKISTRODESMUS FALCATUS	CEL						X			
BOTRYOCOCCUS BRAUNII	COL									X
CENTRIC DIATOM	CEL		2.3	458						
CHLAMYDOMONAS ANGULOSA	CEL									X
CHLOROGONIUM	CEL					0.4	128		0.8	308
CHROOCOCCUS #1	COL					3.5	1283		0.8	308
CHROOCOCCUS MINIMUS	COL								2.3	924
CLOSTERIUM	CEL									X
COCCOID COLONY	COL			X						
COELASTRUM	COL									X
COSMARIUM	CEL									X
CRYPTOMONAS EROSA	CEL	2	5.8	1917						
CYANOPHYTAN CELL	CEL			X						
CYANOPHYTAN FILAMENT	FIL		0.9	167						X
CYCLOTELLA	CEL			X				3	5.9	4004
CYCLOTELLA #1	CEL				2	14.2	5133			
CYCLOTELLA ATOMUS	CEL					2.1	770			
DACTYLOCOCCOPSIS	CEL								3.9	1540
DACTYLOCOCCOPSIS IRREGULARIS	CEL	4	23.6	4625	4	23.4	8470			
DICTYOSPHAERIUM	COL					0.4	128			
DICTYOSPHAERIUM PULCHELLUM	COL						X			X
DINOFLAGELLATE #1	CEL								1.1	462
DINOFLAGELLATE #2	CEL								0.4	154
EUGLENA	CEL			X		0.4	129			
EUGLENA #2	CEL		0.4	83						
FUNGIA SUPERIOR	CEL						X			
FLAGELLATE	CEL									
FLAGELLATE #1	CEL		0.9	167				11	53.4	21560
FLAGELLATES	CEL					3.9	1412			
GOLENKINIA	CEL				3	9.5	3080			
GOLENKINIA RADIATA	CEL	1	30.9	6042					1.5	616
LAGERHEIMIA	CEL			X						
LEPOCINCLIS TEAS	CEL			X						
MALLOMONAS ACARODES	CEL		0.4	83						
MERISMOPEDIA MINIMA	COL							4	4.6	1969
MERISMOPEDIA TENUISSIMA	CEL		0.9	167		2.5	1027		1.9	770
MESOTAENIA	CEL					0.7	257			X
MICRACTINIUM	COL									X
MICRACTINIUM PUSILLUM	COL					0.4	128			
MICROCYSTIS	COL		0.2	42					2.3	924
MICROCYSTIS AERUGINOSA	COL		0.4	83		3.2	1155			X
MICROCYSTIS INCERTA	CEL			X						
NAVICULA	CEL								0.8	309
NEPHROCYTIUM	CEL									X
NEPHROCYTIUM AGARDHIANUM	CEL			X		2.6	1027			
NITZSCHIA	FIL						X	5	2.7	1078
OSCILLATORIA	FIL	1	21.5	4705		0.4	128			
OSCILLATORIA LIMNETICA	COL						X			X
PEDIASTRUM SIMPLEX	COL									X
PEDIASTRUM SIMPLEX	COL								0.4	154
V. DUODENARIUM	CEL		0.2	42						
PENNATE DIATOM	CEL						X			
PERIDINIUM UMBONATUM	CEL					0.4	128			
POLYEDRIOPSIS	CEL						X		0.4	154
PTEROMONAS	CEL									X
QUADRIGULA 2 LACUSTRIS	FIL								1.9	770
RAPHIDIOPSIS	FIL						X			
RAPHIDIOPSIS ? CURVATA	COL			X		0.4	128	21	5.9	2772
RAPHIDIOPSIS CURVATA	COL					0.4	128		0.4	154
SCENEDESMUS #1	COL						X		0.4	154
SCENEDESMUS #2	COL		0.4	83		3.2	1155			
SCENEDESMUS #4	COL						X			X
SCENEDESMUS APICATAUS	COL					0.4	128			
SCENEDESMUS ACUMINATUS	CCL		0.4	83						
SCENEDESMUS ARCUATUS	COL									
SCENEDESMUS BICAUDATUS	COL					0.7	257		0.8	309
SCENEDESMUS BIJUGATUS	COL			X	1	4.3	1540		0.4	154
SCENEDESMUS BIJUGATUS V. ALTERNANS	COL		1.3	292						
SCENEDESMUS DENTICULATUS	CEL								0.8	309
SCENEDESMUS OPOLIENSIS	CEL		1.3	292		0.4	128			X
SCENEDESMUS QUADRICAUDA	CEL				11	27.0	7957			
SCHROEDERIA	CCL						X			
SCHROEDERIA SETIGERA	CEL						X			
SYNEDRA	CEL						X		1.5	616
TETRAEDRON MINIMUM	CEL									X
TETRAEDRON										
TETRAEDRON MINIMUM										
TRIBONEMA										
TOTAL				19585			36188			40349

LAKE NAME: LAKE ISTOKPOGA
STORET NUMBER: 1221

NYGAARD TROPHIC STATE INDICES

DATE	09 04 73	11 06 73
MYXOPHYCEAN	6.00 E	05/0 E
CHLOROPHYCEAN	8.50 E	04/0 E
EUGLENOPHYTE	0/29 ?	0/09 ?
DIATOM	1.00 E	1.00 E
COMPOUND	16.5 E	12/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 04 73	11 06 73
GENUS	07	06
SPECIES	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 04 73	11 06 73
AVERAGE DIVERSITY	H	3.49	3.15
NUMBER OF TAXA	S	48.00	21.00
NUMBER OF SAMPLES COMPOSITED	M	6.00	6.00
MAXIMUM DIVERSITY	MAXH	5.58	4.39
TOTAL DIVERSITY	D	56869.55	26195.40
TOTAL NUMBER OF INDIVIDUALS/ML	N	16295.00	8316.00
EVENESS COMPONENT	J	0.63	0.72
MEAN NUMBER OF INDIVIDUALS/TAXA	L	339.48	396.00
NUMBER/ML OF MOST ABUNDANT TAXON	K	4427.00	2618.00

LAKE NAME: LAKE ISTOKPOGA
STORET NUMBER: 1221

CONTINUED

TAXA	FORM	09 04 73 IS	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 IS	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
APHANOCAPSA	COL	3	5.9	962			
CENTRIC DIATOM	CEL			X			
CHLOROGONIUM	CEL			X			
CHLOROPHYTAN FLAGELLATE #1	CEL						X
CHLOROPHYTAN FLAGELLATE #2	CEL						X
CHROOCOCCUS	COL		0.6	92			
CRUCIGENIA TETRAPEDIA	COL		1.2	192			
CYCLOTELLA	CEL		1.2	192			
DACTYLOCOCCOPSIS	CEL		2.4	387			
DACTYLOCOCCOPSIS ? ACICULARIS	CEL			X			
DACTYLOCOCCOPSIS FASCICULARIS	CEL		0.6	92			
DICTYOSPHAERIUM PULCHELLUM	COL		2.9	477			
DINOFLAGELLATE	CEL					1.9	154
DINOFLAGELLATE #1	CEL		0.6	92			
DINOFLAGELLATE #2	CEL		0.6	92			
EUASTRUM	CEL		1.2	192			
FLAGELLATE #1	CEL		1.7	285	4	8.3	693
FLAGELLATE #2	CEL		1.7	285			
FLAGELLATE #3	CEL			X			
FLAGELLATE #4	CEL			X			
FLAGELLATE #5	CEL			X			
GOLEMANIA RADIATA	CEL			X			
LUNATE CELLED COLONY	COL						X
LYNGBYA CONTORTA ?	FIL					0.9	77
LYNGBYA LAGERHEIMII ?	CEL		1.2	192			
LYNGBYA LIMNETICA	FIL	1	27.2	4427		0.9	77
MELOSIRA DISTANS	CEL	4	4.7	770	3	11.1	924
MELOSIRA GRANULATA	CEL				1	16.7	1386
MERISMOPEDIA	COL				5	6.5	539
MERISMOPEDIA MINIMA	COL			X			
MERISMOPEDIA PUNCTATA	COL		1.2	192			
MERISMOPEDIA TENUISSIMA	COL		2.4	385			
MICROCYSTIS	COL				2	31.5	2618
MICROCYSTIS INCERTA	COL	2	27.2	4427			X
OOCYSTIS	CEL			X		1.9	154
OOCYSTIS ? NOVAE-SEMLIAE V. MAXIMA	CEL			X			
OSCILLATORIA	FIL			X			
PEDIASTRUM DUPLEX V. CLATHRATUM	COL						X
PEDIASTRUM SIMPLEX V. DUODENARIUM	COL			X			
PENNATE DIATOM #1	CEL	5	4.1	670		4.6	385
PENNATE DIATOM #2	CEL		2.4	385		2.8	231
PENNATE DIATOM #3	CEL			X			
QUADRICULA ? LACUSTRIS	CEL			X			
RHIZOSOLENIA	CEL		0.6	92			
RHIZOSOLENIA ERIENSIS	CEL						X
SCENEDESMUS	COL					3.7	308
SCENEDESMUS ABUNDANS	COL		4.1	670			
SCENEDESMUS DENTICULATUS	COL			X			
SCENEDESMUS LONGUS V. NAEGELII	COL		0.6	92			
SCENEDESMUS PERFORATUS	COL			X			
SCHROEDERIA	CEL			X			
SPERMATOZOOPSIS	CEL		0.6	92		6.5	539
STAURASTRUM	CEL			X			
SURIRELLA	CEL			X		0.9	77
TETRAEDRON #1	CEL		0.6	92			
TETRAEDRON #2	CEL		1.7	285			
TETRAEDRON MINIMUM	CEL		0.6	92			
TETRAEDRON MUTICUM	CEL			X			
TETRASTRUM ELEGANS	COL					1.9	154
TETRASTRUM HETERACANTHUM	COL		0.6	92			
TOTAL				16295			8316

LAKE NAME: LAKE JESSUP
STORET NUMBER: 1223

NYGAARD TROPHIC STATE INDICES

DATE	09 05 73	11 05 73
MYXOPHYCEAN	10/0 E	5.50 E
CHLOROPHYCEAN	15/0 E	9.50 E
EUGLENOPHYTE	0.04 ?	0.07 ?
DIATOM	0.33 E	1.00 E
COMPOUND	27/0 E	16.5 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 05 73	11 05 73
GENUS	06	13
SPECIES	04	04

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 05 73	11 05 73
AVERAGE DIVERSITY	H	2.71	4.01
NUMBER OF TAXA	S	31.00	41.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00
MAXIMUM DIVERSITY	MAXH	4.95	5.36
TOTAL DIVERSITY	D	413865.78	158499.25
TOTAL NUMBER OF INDIVIDUALS/ML	N	152718.00	39526.00
EVENESS COMPONENT	J	0.55	0.75
MEAN NUMBER OF INDIVIDUALS/TAXA	L	4926.39	964.05
NUMBER/ML OF MOST ABUNDANT TAXON	K	69813.00	7443.00

LAKE NAME: LAKE JESSUP
STORET NUMBER: 1223

CONTINUED

TAXA	FORM	09 05 73 %S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 05 73 %S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
ANABAENA	FIL					0.7	257
ANABAENA #1	FIL		0.2	257			
ANABAENA #2	FIL			X			
ANABAENOPSIS	FIL		2.4	3593			
ANKISTRODESMUS	CEL			X			
ANKISTRODESMUS FALCATUS	CEL						X
APHANOTHECE	COL					1.6	642
CENTRIC DIATOM	CEL					4.2	1668
CHLAMYDOMONAS	CEL						X
CHLOROGONIUM	CEL					0.7	257
CHROOCOCCUS	COL				5	5.2	2053
CLOSTERIUM	CEL						X
CRUCIGENIA IRREGULARIS	COL						X
CRUCIGENIA TETRAPEDIA	COL					0.7	257
CYCLOTELLA	CEL			X			
DACTYLOCOCCOPSIS	COL		0.3	513		4.5	1797
DACTYLOCOCCOPSIS FASCICULARIS	CEL						X
DICTYOSPHAERIUM	COL					1.6	642
EUGLENA	CEL					1.0	385
FILAMENT	FIL					4.9	1925
FLAGELLATE	CEL		0.2	257			
FLAGELLATES	CEL				1	18.8	7443
FRAGILARIA ?	CEL			X			
FRAGILARIA CONSTRUENS	CEL	1	5.7	6913			
KIRCHNERIELLA	CEL					1.9	770
KIRCHNERIELLA OBESA	CEL		0.5	770			
LAGERHEIMIA	CEL						X
LAGERHEIMIA SUBSALSA	CEL		0.3	513			
LYNGBYA	FIL	4	11.1	16940	3	10.4	4107
LYNGBYA LIMNETICA	FIL	3	11.9	18223	4	7.8	3080
MERISMOPEDIA #1	COL					5.8	2310
MERISMOPEDIA #2	COL					1.0	385
MERISMOPEDIA MINIMA	COL		0.5	770			
MICRACTINIUM	COL					1.3	513
MICROCYSTIS #1	COL				2	14.0	5518
MICROCYSTIS #2	COL					0.3	128
MICROCYSTIS AERUGINOSA	COL	5	4.7	7197			
MICROCYSTIS INCERTA	COL		4.2	6417			
OOCYSTIS	CEL			X			
PEDIASTRUM DUPLEX V. ?	COL			X			
PEDIASTRUM DUPLEX V. CLATHRATUM	COL			X			
PEDIASTRUM DUPLEX V. GRACILIMUM ?	COL						X
PEDIASTRUM DUPLEX V. ROTUNDATUM	COL					0.3	128
PEDIASTRUM TETRAS V. TETRADON	COL		0.7	1027		1.9	770
PENNATE DIATOM	CEL					4.2	1668
PENNATE DIATOMS	CEL	2	11.3	17197			
PHACUS PYRUM	CEL			X		0.3	128
PHORMIDIUM MUCICOLA	COL		1.7	2567			
PTEROMONAS	CEL						X
SCENEDESMUS #1	COL					0.7	257
SCENEDESMUS #2	COL						X
SCENEDESMUS ABUNDANS	COL		1.5	2310			
SCENEDESMUS ACUMINATUS	COL		1.2	1757			
SCENEDESMUS DIMORPHUS	COL					1.0	385
SCENEDESMUS OPOLIENSIS V. ?	COL		0.2	257			
SCENEDESMUS QUADRICAUDA	COL		1.2	1797		3.2	1283
SELENASTRUM	COL					0.7	257
STAURASTRUM	CEL					0.3	128
TETRADESMUS WISCONSINENSE	COL		0.3	513			
TETRAEDRON ARTHRODESMIFORME V. CONTORTA	CEL					0.7	257
TETRAEDRON GRACILE	CEL					0.3	128
TETRAEDRON LIMNETICUM	CEL			X			
TETRAEDRON MUTICUM	CEL			X			
TETRAEDRON TRIGONUM	CEL						X
TREUBARIA	CEL			X			X
TOTAL				152718			39526

LAKE NAME: LAKE KISSIMMEE
STORET NUMBER: 1224

NYGAARD TROPHIC STATE INDICES

DATE	03 14 73	09 05 73	11 07 73
MYXOPHYCEAN	2.00 E	1.62 E	2.00 E
CHLOROPHYCEAN	3.00 E	3.25 E	2.33 E
EUGLENOPHYTE	0/20 ?	0.03 ?	0/26 ?
DIATON	1.00 E	1.00 E	2.00 E
COMPOUND	5.75 E	5.50 E	4.67 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 14 73	09 05 73	11 07 73
GENUS	11	15	09
SPECIES	00	07	03

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 14 73	09 05 73	11 07 73
AVERAGE DIVERSITY	H	3.56	3.35	3.85
NUMBER OF TAXA	S	32.00	57.00	39.00
NUMBER OF SAMPLES COMPOSITED	M	4.00	4.00	4.00
MAXIMUM DIVERSITY	MAXH	5.00	5.83	5.29
TOTAL DIVERSITY	D	65222.76	159929.00	116450.95
TOTAL NUMBER OF INDIVIDUALS/ML	N	18321.00	47740.00	30247.00
EVENESS COMPONENT	J	0.71	0.57	0.73
MEAN NUMBER OF INDIVIDUALS/TAXA	L	572.53	837.54	775.56
NUMBER/ML OF MOST ABUNDANT TAXON	K	4048.00	1863[illegible].00	4620.00

LAKE NAME: LAKE KISSIMMEE
STORET NUMBER: 1224

CONTINUED

TAXA	FORM	03 14 73 %S	03 14 73 %C	03 14 73 ALGAL UNITS PER ML	09 05 73 %S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 07 73 %S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
ACHNANTHES	CEL		0.6	106			X			
ACTINASTRUM HANTZSCHII	COL		1.7	320						
ANABAENA	FIL						X		0.4	128
ANABAENOPSIS	FIL	1	22.1	4048	1	12.9	6160			
ANKISTRODESMUS FALCATUS	CEL					1.0	462		5.0	1504
APHANOCAPSA DELICATISSIMA	COL								1.7	513
APHANOTHECE #1	COL								1.3	385
APHANOTHECE #2	COL								3.0	898
APHANOTHECE NIDULANS	COL					2.6	1232			
APHANOTHECE SAXICOLA ?	COL						X			
CENTRIC DIATOM	CEL		0.6	106						
CENTRIC DIATOM #1	CEL					1.0	462			
CENTRIC DIATOMS	CEL								2.1	642
CERASTERIAS	CEL					0.3	154			
CHLOROPHYTAN FLAGELLATE	CEL								0.4	128
CHROOCOCCUS	COL								3.0	898
CHROOCOCCUS #1	COL		1.2	213						
CHROOCOCCUS MINIMUS	COL				5	5.8	2772			
CLOSTERIUM ?	CEL								0.4	128
COELASTRUM PROBOSCIDEUM	COL						X			
COELASTRUM RETICULATUM	COL	3	9.3	1785		6.1	2926			
COELASTRUM RETICULATUM ?	COL							4	9.3	2823
COELOSPHAERIUM	COL						X			
COSMARIUM	CEL		1.7	320						
COSMARIUM #1	CEL					1.0	462		0.8	257
COSMARIUM #2	CEL		0.6	106			X			X
COSMARIUM BIOCULATUM	CEL									X
COSMARIUM REGNESII	CEL			X						
CRUCIGENIA CRUCIFERA	COL						X			X
CRUCIGENIA TETRAPEDIA	COL		0.6	106			X			X
CYLINDROSPERMUM	FIL						X			
CYLINDROCYSTIS	CEL	4	18.0	3303	2	39.0	18634			
CYLINDROCYSTIS FASCICULARIS	CEL							2	14.4	4363
DICTYOSPHAERIUM PULCHELLUM	COL								0.8	257
DINOFLAGELLATE	CEL								0.4	128
EUASTRUM DENTICULATUM	CEL						X			
EUGLENA	CEL						X			
FILAMENT	FIL								7.2	2182
FLAGELLATE #1	CEL		0.6	106						
FLAGELLATE #2	CEL		0.6	106						
GLENODINIUM	CEL									X
GOLENKINIA PAUCISPINA	CEL									X
KIRCHNERIELLA	CEL		1.2	213		1.0	462			
LYNGBYA	FIL			X						
LYNGBYA CONTORTA	FIL							3	10.6	3208
LYNGBYA LAGERHEIMII	FIL				3	7.4	3542			
LYNGBYA LIMNETICA	FIL	5	13.4	2451	4	7.1	3398	1	15.3	4620
MELOSIRA	CEL		2.3	426					1.3	385
MELOSIRA #2	CEL						X			
MELOSIRA DISTANS	CEL					0.6	308			
MERISMOPEDIA	COL		1.7	320						
MERISMOPEDIA PUNCTATA	COL								1.3	385
MERISMOPEDIA TENUISSIMA	COL					1.3	616			
MICROCYSTIS #1	COL								7.6	2310
MICROCYSTIS AERUGINOSA	COL								0.4	128
MICROCYSTIS INCERTA	COL		1.2	213		1.0	462			
NAVICULA	CEL			X						
OCCYSTIS	CEL						X		0.4	128
OSCILLATORIA ANGUSTA	FIL					2.3	1078			
OSCILLATORIA LIMNETICA	FIL		1.7	320						X
PEDIASTRUM BORYANUM	COL						X			
PEDIASTRUM DUPLEX V. RETICULATUM	COL						X			
PEDIASTRUM SIMPLEX V. DUODENARIUM	COL						X			
PEDIASTRUM TETRAS V. TETRADON	COL		0.6	106			X			
PENNATE DIATOM #1	CEL		1.7	320		1.3	616			
PENNATE DIATOMS	CEL							5	9.3	2823
PERIDINIUM WISCONSINENSE	CEL						X			
RHIZOSOLENIA	CEL	2	12.2	2237		0.3	154			
SCENEDESMUS	COL		1.2	213						
SCENEDESMUS #2	CEL					0.3	154			
SCENEDESMUS #3	COL								1.7	513
SCENEDESMUS ABUNDANS	COL		0.6	106		1.0	462			X
SCENEDESMUS ACUMINATUS	COL						X			
SCENEDESMUS ARCUATUS	COL			X						
SCENEDESMUS BIJUGA	COL					0.6	308			
SCENEDESMUS DENTICULATUS	COL		0.6	106			X			
SCENEDESMUS DIMORPHUS	COL									X
SCENEDESMUS OPOLIENSIS	COL		0.6	106						X

LAKE NAME: LAKE KISSIMMEE
STORET NUMBER: 1224

CONTINUED

TAXA	FORM	03 14 73 S	03 14 73 %C	03 14 73 ALGAL UNITS PER ML	09 05 73 S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
SCENEDESMUS PERFORATUS	COL						X			
SCENEDESMUS QUADRICAUDA	COL					0.6	308			
SCHROEDERIA SETIGERA	CEL					0.3	154			
SPONDYLOSIUM	CEL					1.3	616			
SPONDYLOSIUM PLANUM ?	FIL									X
STAURASTRUM	CEL		2.9	533						X
STAURASTRUM #1	CEL					0.3	154			
STAURASTRUM #2	CEL						X			
STAURASTRUM #3	CEL						X			
STAURODESMUS	CEL					0.3	154			
SYNEDRA	CEL					1.9	924			
SYNEDRA #2	CEL					0.6	308			
TETRAEDRON	CEL									X
TETRAEDRON ARTHRODESMIFORME V. CONTORTA	CEL						X			
TETRAEDRON CAUDATUM V. LONGISPINUM	CEL			X			X			
TETRAEDRON GRACILE	CEL						X			
TETRAEDRON MINIMUM	CEL		0.6	106		0.3	154		1.7	513
TETRAEDRON MINIMUM V. SCROBICULATUM	CEL					0.3	154			
TETRAEDRON TRIGONUM V. GRACILE	CEL									X
TREUBARIA	CEL						X			
TOTAL				19321			47740			30247

LAKE NAME: LAKE LULU
STORET NUMBER: 1227

NYGAARD TROPHIC STATE INDICES

DATE	09 06 73	11 06 73
MYXOPHYCEAN	05/0 E	10/0 E
CHLOROPHYCEAN	09/0 E	21/0 E
EUGLENOPHYTE	0/15 ?	0.03 ?
DIATOM	0/01 ?	0.75 E
COMPOUND	15/0 E	35/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 06 73	11 06 73
GENUS	05	13
SPECIES	04	06

SPECIES DIVERSITY AND ABUNDANCE INDICES

		DATE 09 06 73	11 06 73
AVERAGE DIVERSITY	H	2.34	4.24
NUMBER OF TAXA	S	17.00	44.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	4.09	5.46
TOTAL DIVERSITY	D	63905.40	92633.36
TOTAL NUMBER OF INDIVIDUALS/ML	N	27310.00	19489.00
EVENESS COMPONENT	J	0.57	0.78
MEAN NUMBER OF INDIVIDUALS/TAXA	L	1606.47	442.93
NUMBER/ML OF MOST ABUNDANT TAXON	K	15690.00	3114.00

LAKE NAME: LAKE LULU
STORET NUMBER: 1227

CONTINUED

TAXA	FORM	09 06 73 ALGAL UNITS PER ML	11 06 73 ALGAL UNITS PER ML
ACTINASTRUM HANTZSCHII	COL		979
ANABAENA	FIL		X
ANABAENOPSIS	FIL		X
CHLAMYDOMONAS 2	COL		X
CHLOROGONIUM	COL		X
CHROOCOCCUS	COL	89	89
CHROOCOCCUS #1	COL	89	89
CRYPTOMONAS	COL	1889	356
CYCLOTELLA	COL		1157
CYCLOTELLA MENEGHINIANA	COL		1602
DACTYLOCOCCOPSIS P	COL		356
DACTYLOCOCCOPSIS PASCICULARIS	COL		923
DICTYOSPHAERIUM PULCHELLUM	COL	1599	
DIMORPHOCELLATE	COL		89
FLAGELLATE	COL		89
FLAGELLATES	COL	149	
FRAGILARIA PREVISTRIATA	COL		3114
GOMPHONEMA	COL		1602
KIRCHNERIELLA	COL	149	
LAGERHEIMIA SUBSALSA	COL		X
LEPOCINCLIS OVUM	COL	X	X
MERISMOPEDIA	FIL	1019	712
MERISMOPEDIA MARSSONII	COL	298	
MICRACTINIUM	COL		267
MICROCYSTIS AERUGINOSA	COL		X
NITZSCHIA	COL	15698	X
OSCILLATORIA LIMNETICA	COL		X
PEDIASTRUM TETRAS	FIL		356
P. TETRAODON			
PENNATE DIATOM	COL		X
PHACUS	COL	149	X
RHIZOSOLENIA	COL		X
SCENEDESMUS	FIL	1639	979
SCENEDESMUS #1	COL		267
SCENEDESMUS #2	COL		X
SCENEDESMUS #3	COL		267
SCENEDESMUS ABUNDANS	COL		X
SCENEDESMUS ACUMINATUS	COL	1307	1602
SCENEDESMUS OPOLIENSIS	COL	2615	801
SCENEDESMUS QUADRICAUDA	COL	298	
SCENEDESMUS QUADRICAUDA	COL	436	178
V. LONGISPINA F. ASYMMETRICUS	COL		X
SCENEDESMUS QUADRICAUDA	COL		
V. LONGISPINA F. GRANULATUS	COL		356
SCHROEDERIA	COL	X	356
STEPHANODISCUS	COL		X
SYNEDRA ACTINASTROIDES	COL		445
TETRAEDRON #1	COL	149	89
TETRAEDRON #2	COL		445
TETRAEDRON CAUDATUM	COL		89
V. LONGISPINUM	COL		356
TETRAEDRON MINIMUM			
TETRAEDRON MUTICUM			
TOTAL		27310	19489

LAKE NAME: LAKE MARION
STORET NUMBER: 1229

NYGAARD TROPHIC STATE INDICES

DATE	03 13 73	09 06 73	11 07 73
MYXOPHYCEAN	2.17 E	1.25 E	1.83 E
CHLOROPHYCEAN	2.00 E	0.62 ?	0.83 E
EUGLENOPHYTE	0.04 ?	0.13 ?	0.12 ?
DIATOM	0.20 ?	0.29 ?	0.25 ?
COMPOUND	4.50 E	2.37 E	3.17 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 13 73	09 06 73	11 07 73
GENUS	09	13	06
SPECIES	00	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 13 73	09 06 73	11 07 73
AVERAGE DIVERSITY	H	2.59	1.88	1.92
NUMBER OF TAXA	S	40.00	37.00	33.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	5.32	5.21	5.04
TOTAL DIVERSITY	D	288847.16	260207.04	336963.84
TOTAL NUMBER OF INDIVIDUALS/ML	N	111524.00	138408.00	175502.00
EVENESS COMPONENT	J	0.49	0.36	0.38
MEAN NUMBER OF INDIVIDUALS/TAXA	L	2788.10	3740.76	5318.24
NUMBER/ML OF MOST ABUNDANT TAXON	K	39185.00	89129.00	106645.00

LAKE NAME: LAKE HURON
STORET NUMBER: 1220

CONTINUED

TAXA	FORM	09 13 73 ES	09 13 73 BC	09 13 73 ALGAL UNITS PER ML	09 08 73 ES	09 08 73 BC	09 08 73 ALGAL UNITS PER ML	11 07 73 ES	11 07 73 BC	11 07 73 ALGAL UNITS PER ML
ACHNANTHES	COL					1.9	2695			
ACHNANTHES MICROCEPHALA	COL							51	3.0	5195
ANABAENA	FIL		0.5	502						
ANABAENA #1	FIL				31	3.9	5159	31	3.1	5515
ANABAENA #2	FIL					0.1	192		X	
ANABAENOPSIS RACIBORSKII	FIL	121	27.6	30544						
APHANOTHECE #1	COL				51	1.3	1733		0.5	963
APHANOTHECE CASTAGNEI	COL		0.2	201		1.0	1348		0.3	578
APHANOTHECE NIDULANS	COL	31	7.2	8038						
ARTHROSPIRA	FIL		X							
BOTRYOCOCCUS PROTUBERANS	COL					0.1	192			
CHROOCOCCUS #1	COL								0.2	385
CHROOCOCCUS DISPERSUS	COL		2.2	2411		0.6	770		X	
COELASTRUM CAMBRICUM VAR. INTERMEDIUM	COL		X							
COSMARIUM	CEL		0.4	402						
COSMARIUM #1	CEL					0.7	963		2.7	4813
COSMARIUM #2	CEL						X		0.1	193
CYANOPHYTAN FILAMENT #1	FIL				121	19.6	25795	122	22.3	39078
CYCLOTELLA STELLIGERA	CEL		0.1	100			X			
CYLINDROSPERMUM	FIL		X							
CACTYLOCOCCOPSIS	CEL	115	0.6	16679						
DICTYOSPHAERIUM	COL		X							
DINOFLAGELLATE	CEL								0.2	385
DINOFLAGELLATE #2	CEL						X			
EUASTRUM	CEL		X							
EUASTRUM DENTICULATUM	CEL						X			
EUGLENA	CEL		X			0.1	192		X	
EUNOTIA	CEL		X							
FLAGELLATES	CEL								0.8	1348
FRAGILARIA #1	CEL					0.7	963			
FRAGILARIA #2	CEL						X			
FRAGILARIA CONSTRUENS	CEL		X			0.1	192		X	
GLENODINIUM GYMNODINIUM VAR. BISCLYELLIFORME	CEL		X							
GOLENKINIA	CEL		X							
KIRCHNERIELLA	CEL		0.4	402			X			
LYNGBYA CIRCUMCRETA	FIL				14	3.2	4428	14	2.9	5005
LYNGBYA LAGERHEIMII	FIL	14	4.5	5024						
LYNGBYA LIMNETICA	FIL	111	35.1	35185	111	64.4	89128	111	60.8	106645
MALLOMONAS	CEL		X							
MELOSIRA	CEL						X		0.3	578
MERISMOPEDIA PUNCTATA	COL		X							
MICROCYSTIS AERUGINOSA	COL		X						0.2	385
MICROCYSTIS AERUGINOSA ?	COL					0.3	385			
MICROCYSTIS INCERTA	COL		2.1	2311		1.3	1733		1.3	2310
NAVICULA GOTYLANDICA	CEL						X			
NITZSCHIA	CEL	15	3.2	3617		0.3	385			
OOCYSTIS	CEL		X							
PEDIASTRUM DUPLEX VAR. CLATHRATUM	COL		X							
PENNATE #1	CEL		0.1	100						
PENNATE DIATOM	CEL								0.2	385
PENNATE DIATOM #1	CEL									X
PENNATE DIATOM #2	CEL						X			
PERIDINIUM	CEL					0.1	192			X
PERIDINIUM WISCONSINENSE ?	CEL					0.1	192		0.1	193
PHACUS PYRUM	CEL						X			X
PHEOCYSTENIA	CEL		X							
SCENEDESMUS ABUNDANS	COL		X			0.1	192		0.1	193
SCENEDESMUS BICAUDATUS	COL						X			X
SCENEDESMUS PERFORATUS	COL						X			X
SCENEDESMUS PROTUBERANS	COL		0.1	100						
SCENEDESMUS QUADRICAUDA	CCL		X							
SPONDYLOSIUM PLANUM	CEL		0.6	703						
STAURASTRUM	CEL		X				X			
STAURASTRUM #2	CEL						X		0.1	193
STAURASTRUM #3	CEL						X			X
STAURASTRUM #4	CEL								0.1	193
STAURASTRUM #5	CEL		X				X			
STAURASTRUM TETRACERUM	CEL		0.9	1005		1.1	1540		0.5	963
TETRAEDRON #1	CEL		0.1	100						X
TETRAEDRON CAUDATUM	CEL		0.1	100						X
TETRAEDRON MINIMUM	CEL		X							
TOTAL				111524			138408			175502

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LAKE NAME: LAKE MINNEHAHA
STORET NUMBER: 1229

NYGAARD TROPHIC STATE INDICES

DATE	09 05 73	11 05 73
MYXOPHYCEAN	4.33 E	2.50 E
CHLOROPHYCEAN	6.33 E	5.00 E
EUGLENOPHYTE	0.03 ?	0.03 ?
DIATOM	0.50 E	2.00 E
COMPOUND	11.3 E	8.25 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 05 73	11 05 73
GENUS	12	10
SPECIES	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 05 73	11 05 73
AVERAGE DIVERSITY	H	2.64	3.21
NUMBER OF TAXA	S	43.00	42.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	5.43	5.39
TOTAL DIVERSITY	D	89189.76	89912.10
TOTAL NUMBER OF INDIVIDUALS/ML	N	33784.00	28010.00
EVENESS COMPONENT	J	0.49	0.60
MEAN NUMBER OF INDIVIDUALS/TAXA	L	785.67	666.90
NUMBER/ML OF MOST ABUNDANT TAXON	K	15884.00	9529.00

LAKE NAME: LAKE PINNEHAHA
STORET NUMBER: 1229

CONTINUED

TAXA	FORM	09 05 73 S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
ANABAENA	FIL		0.6	193			X
ANABAENOPSIS	FIL		1.4	481			
APHANOCAPSA	COL		0.6	193			
BOTRYOCOCCUS BRAUNII	COL						X
CENTRIC DIATOM	CEL					0.7	193
CHROOCOCCUS	COL				5	3.4	963
CLOSTERIUM	CEL		0.9	289			
COELASTRUM MICROPORUM ?	COL			X			
COSMARIUM	CEL			X			X
CRUCIGENIA	COL					0.3	96
CRUCIGENIA RECTANGULARIS	COL			X			X
CRUCIGENIA TETRAPEDIA	COL		0.3	96			X
CYANOPHYTAN COCCOID CELLED COLONY	COL			X			
CYANOPHYTAN FILAMENT #1	FIL					0.3	96
DACTYLOCOCCOPSIS ACICULARIS ?	CEL	3	3.1	1059		0.7	193
DACTYLOCOCCOPSIS FASCICULARIS	CEL				2	25.4	7123
DACTYLOCOCCOPSIS FASCICULARIS ?	CEL	2	26.8	9048			
DICTYOSPHAERIUM PULCHELLUM	COL			X		0.3	96
DINOBRYON	CEL					0.3	96
DINOFLAGELLATE #1	CEL			X		1.4	385
DINOFLAGELLATE #2	CEL		0.3	96		1.0	289
EUASTRUM	CEL						X
EUGLENA	CEL			X			
FLAGELLATE #1	CEL		0.6	193			
FLAGELLATE #2	CEL	5	2.6	866			
FLAGELLATES	CEL				3	6.9	1925
GOLENKINIA	CEL		1.1	385			
GOLENKINIA RADIATA	CEL					1.7	481
KIRCHNERIELLA	CEL					4.5	1251
LYNGBYA LIMNETICA ?	FIL	4	3.7	1251		0.7	193
MERISMOPEDIA MINIMA	COL		0.9	289		1.7	481
MERISMOPEDIA PUNCTATA	COL					3.1	866
MERISMOPEDIA TENUISSIMA	COL		1.1	385			
MICRACTINIUM ?	COL		0.9	289			
MICRACTINIUM PUSILLUM V. ELEGANS	COL			X			
MICROCYSTIS INCERTA	COL				4	3.4	963
OSCILLATORIA #2	FIL		0.3	96			
OSCILLATORIA ANGUSTA	FIL	1	47.0	15981	1	34.0	9529
PEDIASTRUM DUPLEX V. RETICULATUM	COL						X
PEDIASTRUM SIMPLEX V. DUODENARIUM	COL		0.3	96			X
PENNATE DIATOM	CEL			X			
PENNATE DIATOM #1	CEL		0.3	96			
PENNATE DIATOMS	CEL					2.4	674
PHACUS PYRUM	CEL						X
RAPHIDIOPSIS	FIL		0.3	96			
RAPHIDIOPSIS MEDITERRANEA	FIL			X			
RHIZOSOLENIA	CEL		0.9	289			X
SCENEDESMUS	COL			X			
SCENEDESMUS #1	COL		0.3	96		0.3	96
SCENEDESMUS #2	COL		1.4	481		1.4	385
SCENEDESMUS #3	COL		0.3	96			
SCENEDESMUS #4	COL						X
SCENEDESMUS ACUMINATUS	COL						X
SCENEDESMUS GRANULATUS F. DISCIFORMIS	COL						
SCHROEDERIA ?	CEL		0.3	96		1.4	385
SCHROEDERIA SETIGERA	CEL						X
STAURASTRUM	CEL					0.3	96
STAURASTRUM #1	CEL					0.3	96
STAURASTRUM #2	CEL			X			
TETRAEDRON	CEL			Y			
TETRAEDRON #1	CEL		1.4	481			
TETRAEDRON #2	CEL			X		1.0	289
TETRAEDRON LIMNETICUM	CEL						X
TETRAEDRON MINIMUM	CEL		1.7	578		2.4	674
TETRAEDRON MUTICUM	CEL		0.3	96			
TETRAEDRON REGULARE	CEL						X
TREUBARIA	CEL					0.3	96
TREUBARIA SETIGERUM ?	CEL		0.6	193			
TOTAL				33784			29010

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LAKE NAME: LAKE MINNEOLA
STORET NUMBER: 1230

NYGAARD TROPHIC STATE INDICES

DATE	03 15 73	09 06 73	11 07 73
MYXOPHYCEAN	04/0 E	0.43 E	8.00 E
CHLOROPHYCEAN	0/0 C	0.43 ?	5.00 E
EUGLENOPHYTE	0/04 ?	0/06 ?	0/13 ?
DIATOM	01/0 E	01/0 E	1.00 E
COMPOUND	05/0 E	1.00 C	16.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 15 73	09 06 73	11 07 73
GENUS	00	01	11
SPECIES	C0	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 15 73	09 06 73	11 07 73
AVERAGE DIVERSITY	H	2.37	1.91	2.68
NUMBER OF TAXA	S	8.00	19.00	26.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	3.00	3.00
MAXIMUM DIVERSITY	MAXH	3.00	4.25	4.70
TOTAL DIVERSITY	D	744.18	10411.12	17106.44
TOTAL NUMBER OF INDIVIDUALS/ML	N	314.00	5752.00	6383.00
EVENESS COMPONENT	J	0.79	0.43	0.57
MEAN NUMBER OF INDIVIDUALS/TAXA	L	39.25	302.74	245.50
NUMBER/ML OF MOST ABUNDANT TAXON	K	122.00	3235.00	2757.00

LAKE NAME: LAKE MANEOLA
STORET NUMBER: 1230

CONTINUED

TAXA	FORM	03 15 73 S	03 15 73 %C	03 15 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
ANABAENA	FIL			X						
APHANOCAPSA DELICATISSIMA	COL	5	11.1	35				2	15.1	962
APHANOTHECE	COL									X
ARTHRODESMUS	CEL				1	1.0	60			
ASTERIONELLA	CEL									X
CENTRIC DIATOM	CEL								3.0	192
CERATIUM HIRUNDINELLA	CEL						X			
CHLAMYDOMONAS	CEL								3.0	192
CHROOCOCCUS	COL			X						
CHROOCOCCUS #1	COL							5	9.0	577
CHROOCOCCUS MINIMUS ?	COL							3	14.0	893
CHROOCOCCUS VARIUS ?	COL				2	25.0	1438			
CLOSTERIUM	CEL						X			
COELASTRUM CAMBRICUM	COL						X			
COELOSPHAERIUM NAEGELIANUM	COL									X
COSMARIUM #1	CEL				1	1.0	60			
COSMARIUM #2	CEL						X			
COSMARIUM #3	CEL						X			
CRUCIGENIA RECTANGULARIS	COL									X
CRUCIGENIA TETRAPEDIA	COL				1	1.0	60	1	1.0	62
CRYPTOMONAS	CEL				1	1.0	60			
CRYPTOMONAS EROSA	CEL	4	11.1	35						
CYANOPHYTAN FILAMENT #1	FIL						X	1	1.9	123
DACTYLOCOCCOPSIS	CEL							1	1.0	62
DICTYOSPHAERIUM PULCHELLUM	COL									X
DINOBRYON	CEL									X
DINOFLAGELLATE #1	CEL				5	1.0	60	1	1.9	123
DINOFLAGELLATE #2	CEL				4	1.0	60			
DINOFLAGELLATE #3	CEL									X
DINOFLAGELLATE #4	CEL									X
FLACELLATE	CEL									X
FLAGELLATE #1	CEL	1	38.9	122						
FLAGELLATE #2	CEL	2	16.6	52						
FLAGELLATES	CEL				3	11.5	659			
GOLENKINIA	CEL									X
LYNGBYA	FIL		11.1	35	1	56.2	3235			
LYNGBYA LIMNETICA	FIL							1	43.2	2757
MELOSIRA	CEL	3	11.1	35						
OOCYSTIS LACUSTRIS ?	CEL						X			
PENNATE DIATOM #1	CEL							1	1.0	62
RHIZOSOLENIA #1	CEL							1	1.0	62
RHIZOSOLENIA #2	CEL									X
RHIZOSOLENIA ERIENSIS	CEL						X			
SCENEDESMUS	COL							1	1.0	62
STAURASTRUM	CEL									X
STAURASTRUM #1	CEL				1	1.0	60			
STAURASTRUM #2	CEL						X			
SYNEDRA	CEL							4	4.0	254
TOTAL				314			5752			6383

LAKE NAME: LAKE MONROE
STORET NUMBER: 1231

NYGAARD TROPHIC STATE INDICES

DATE	03 14 73	09 05 73	11 05 73
MYXOPHYCEAN	4.00 E	5.00 E	3.50 E
CHLOROPHYCEAN	2.50 E	7.00 E	5.00 E
EUGLENOPHYTE	0.15 ?	0.04 ?	0.06 ?
DIATOM	0.64 E	1.00 E	2.00 E
COMPOUND	11.0 E	14.5 E	10.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 14 73	09 05 73	11 05 73
GENUS	18	16	06
SPECIES	06	08	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 14 73	09 05 73	11 05 73
AVERAGE DIVERSITY	H	1.82	3.97	2.95
NUMBER OF TAXA	S	39.00	40.00	28.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	3.00	3.00
MAXIMUM DIVERSITY	MAXH	5.29	5.32	4.81
TOTAL DIVERSITY	D	29611.40	75715.84	11932.75
TOTAL NUMBER OF INDIVIDUALS/ML	N	16270.00	19072.00	4045.00
EVENESS COMPONENT	J	0.34	0.75	0.61
MEAN NUMBER OF INDIVIDUALS/TAXA	L	417.18	476.80	144.46
NUMBER/ML OF MOST ABUNDANT TAXON	K	11318.00	3337.00	1759.00

LAKE NAME: LAKE PONRCE
STORET NUMBER: 1231

CONTINUED

TAXA	FORM	09 14 73			09 05 73			11 05 73		
		BS	BC	ALGAL UNITS PER ML	BS	BC	ALGAL UNITS PER ML	BS	BC	ALGAL UNITS PER ML
ACHNANTHES	CEL			X						
ANABAENA	FIL		0.2	25		0.4	85			
ANKISTRODESMUS FALCATUS	CEL			X						
APHANOTHECE	COL								0.6	24
CENTRIC DIATOM	CEL							14	7.7	313
CHLAMYDOMONAS	CEL							11	43.5	1759
CHROCOCCUS	COL					0.9	171			
CHRYSOPHYTAN ? FILAMENT	FIL								1.8	72
CLOSTERIUM	CEL		0.2	25						
CLOSTERIUM #1	CEL			X		0.4	85			
CLOSTERIUM #2	CEL					0.4	85		1.2	48
COCCONEIS	CEL		0.3	50						
COSCINODISCUS LACUSTRIS	CEL			X						
COSCINODISCUS ROTHII V. SUBSALSA	CEL			X						
CRUCIGENIA	COL						X			
CRUCIGENIA TETRAPEDIA	COL									X
CRYPTOMONAS EROSA	CEL			X						
CYCLOTELLA #1	CEL					0.4	85			
CYCLOTELLA MENEGHINIANA	CEL	14	1.1	174	13	10.8	2053			
CYMBELLA TURGIDA	CEL			X						
DACTYLOCOCCOPSIS	CEL					0.9	171	15	6.6	265
DACTYLOCOCCOPSIS IRREGULARIS	CEL			X						
DICTYOSPHAERIUM	COL								1.2	48
DINOFLAGELLATE	CEL					0.4	85			
EUGLENA	CEL						X			
EUGLENA CXYURIS	CEL			X						
EUNOTIA INCISA	CEL			X						
FLAGELLATE #1	CEL		0.6	100		6.7	1283			
FLAGELLATE #2	CEL					0.9	171			
FLAGELLATES	CEL								1.2	48
FRAGILARIA	CEL				14	10.8	2053			
GLENODINIUM	CEL								2.4	96
GYMNODINIUM ORDINATUP	CEL		0.2	25						
GYROSIGMA ?	CEL					0.4	85			
KIRCHNERIELLA	CEL								0.6	24
LAGERHEIMIA SUBSALSA	CEL			X			X			
LYNGBYA CIRCUMCRETA	FIL				12	15.3	2909	13	9.5	385
LYNGBYA CONTORTA	FIL	11	10.3	1642						
LYNGBYA LIMNETICA	FIL				5	4.9	941		1.2	48
MALLOMONAS ACAROIDES	CEL			X						
MELOSIRA	CEL								1.8	72
MELOSIRA #4	CEL			X						
MELOSIRA DISTANS	CEL	13	69.6	11318	11	17.5	3337			
MELOSIRA GRANULATA	CEL			X						
MELOSIRA ITALICA	CEL			X						
MELOSIRA VARIANS	CEL					4.0	770			
MERISMOPEDIA	COL								2.4	96
MERISMOPEDIA GLAUCA	COL			X						
MERISMOPEDIA PUNCTATA	COL					1.8	342			
MERISMOPEDIA TENUISSIMA	COL		2.1	348		0.9	171			
MESOSTIGMA VIRIDIS	CEL					1.8	342			X
MICRACTINIUM	COL									X
MICROCYSTIS AERUCINOSA	COL		0.6	100						
MICROCYSTIS INCERTA	COL	12	6.9	1119		2.7	513	12	13.7	554
NAVICULA #1	CEL		0.3	50						
NAVICULA #2	CEL			X						
NITZSCHIA	CEL			X		4.0	770			
NITZSCHIA #1	CEL		3.5	572						
NITZSCHIA #2	CEL		0.6	100						
OOCYSTIS SUBMARINA	CEL					1.8	342			
OSCILLATORIA	FIL						X		1.2	48
OSCILLATORIA #1	FIL					4.5	855			
OSCILLATORIA LIMNETICA	FIL		1.1	174						
PEDIASTRUM DUPLEX V. ?	COL						X			X
PEDIASTRUM TETRAS V. TETRADON	COL					0.4	85		0.6	24
PENNATE DIATOM	CEL		0.8	124						X
PHACUS	CEL								0.6	24
PHACUS PSEUDONORDSTEDTII	CEL		0.2	25						
PINNULARIA MAJOR	CEL			X						
SCENEDESMUS #1	COL					0.4	85			
SCENEDESMUS #2	COL						X			
SCENEDESMUS ABUNDANS	COL					2.2	428			X
SCENEDESMUS ACUMINATUS	COL					0.4	85			
SCENEDESMUS BIJUGA	COL		0.3	50						
SCENEDESMUS DIMORPHUS	COL		0.2	25						
SCENEDESMUS PERFORATUS	COL						X			

LAKE NAME: LAKE PONRCE
STORET NUMBER: 1291

CONTINUED

TAXA	FORM	03 14 73 IS	03 14 73 BC	03 14 73 ALGAL UNITS PER ML	09 05 73 IS	09 05 73 BC	09 05 73 ALGAL UNITS PER ML	11 05 73 IS	11 05 73 BC	11 05 73 ALGAL UNITS PER ML
SCENEDESMUS QUADRICAUDA	CEL	5	1.4	224		1.3	297			X
SCHROEDERIA	CEL						X			
SPERMATOZOOPSIS	CEL					0.4	85			
STAURASTRUM	CEL									X
SYNEDRA	CEL						X			
TETRAEDRON MUTICUM	CEL					0.9	171		1.2	48
TETRASTRUM GRACILE	COL								1.2	48
TETRASTRUM HETERACANTHUM	COL					0.9	171			
TOTAL				1e270			19072			4045

LAKE NAME: LAKE OKEECHOBEE
STORET NUMBER: 1232

NYGAARD TROPHIC STATE INDICES

DATE	03 10 73	09 01 73	11 06 73
MYXOPHYCEAN	2.50 E	6.00 E	4.67 E
CHLOROPHYCEAN	2.00 E	7.00 E	4.67 E
EUGLENOPHYTE	0.06 ?	0/26 ?	0/28 ?
DIATOM	0.33 E	0.57 E	3.00 E
COMPOUND	5.75 E	15.0 E	10.3 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 10 73	09 01 73	11 06 73
GENUS	11	16	05
SPECIES	04	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 10 73	09 01 73	11 06 73
AVERAGE DIVERSITY	H	3.60	2.72	3.21
NUMBER OF TAXA	S	48.00	44.00	39.00
NUMBER OF SAMPLES COMPOSITED	M	1..00	10.00	10.00
MAXIMUM DIVERSITY	MAXH	5.58	5.46	5.29
TOTAL DIVERSITY	D	11923.20	103161.44	72905.52
TOTAL NUMBER OF INDIVIDUALS/ML	N	3312.00	37927.00	22712.00
EVENESS COMPONENT	J	0.65	0.50	0.61
MEAN NUMBER OF INDIVIDU-LS/TAXA	L	69.00	861.98	582.36
NUMBER/ML OF MOST ABUNDANT TAXON	K	828.00	20021.00	6545.00

LAKE NAME: LAKE OKEECHOBEE CONTINUED
STORET NUMBER: 1232

TAXA	FORM	03 10 73			09 01 73			11 06 73		
		S	BC	ALGAL UNITS PER ML	S	BC	ALGAL UNITS PER ML	S	BC	ALGAL UNITS PER ML
ANABAENA #1	FIL						X		2.3	513
ANABAENA #2	FIL								0.6	128
ANABAENA #3	FIL						X			X
ANKISTRODESMUS FALCATUS	CEL			X						
APHANIZOMENON ?	FIL		0.6	20						
APHANOCAPSA	COL					2.0	770			
APHANOTHECE NIDULANS ?	COL						X			
CENTRIC DIATOMS	CEL								2.3	513
CHLAMYDOMONAS GLOBOSA	CEL		0.6	20						
CHLOROPHYTAN EPIPHYTIC CELL	CEL			X						
CHROOCOCCUS	COL								5.6	1283
CLOSTERIUM	CEL						X			X
CLOSTERIUM #1	CEL		0.6	20						
CLOSTERIUM #2	CEL			X						
CLOSTERIUM #3	CEL			X						
COELASTRUM	COL									X
COELASTRUM MICROPORUM	COL						X			X
COELASTRUM RETICULATUM	COL			X						
COSCINODISCUS ROTHII V. SUBSALSA	CEL			X	2	6.1	2310			
COSMARIUM	CEL			X						
CRYPTOMONAS EROSA	CEL	2	11.3	374			X			
CYANOPHYTAN COCCOID CELLED COLONY	COL						X			
CYANOPHYTAN FILAMENT	CEL		1.9	59						
CYANOPHYTAN FILAMENT #1	FIL					3.0	1155		5.1	1155
CYANOPHYTAN FILAMENTS	FIL			X						
CYCLOTELLA	CEL						X			
CYCLOTELLA MENEGHINIANA	CEL			X						
DACTYLOCOCCOPSIS	CEL								1.7	385
DACTYLOCOCCOPSIS IRREGULARIS	CEL		6.6	217						
DICTYOSPHAERIUM PULCHELLUM	COL						X			X
DINOFLAGELLATE	CEL						X		0.6	128
DIPLONEIS	CEL			X						
ELAKATOTHRIX GELATINOSA	CEL			X						
EUGLENA #1	CEL			X						
FLAGELLATE #1	CEL	5	10.1	935		2.5	963			
FLAGELLATE #2	CEL						X			
FLAGELLATE #3	CEL						X			
FLAGELLATES	CEL							5	11.9	2695
FRAGILARIA #1	CEL					1.0	385			
FRAGILARIA CONSTRUENS	CEL		2.4	79	4	7.6	2888			
GLENODINIUM GYMNODINIUM	CEL			X						
GOLENKINIA RADIATA	CEL						X			X
GYROSIGMA	CEL			X						
KIRCHNERIELLA	CEL									X
LAGERHEIMIA CILIATA	CEL						X			
LYNGBYA ? LIMNETICA	FIL									X
LYNGBYA #2	FIL				11	52.8	20021	11	28.9	6545
LYNGBYA CIRCUMCRETA	FIL				3	9.1	3465		5.6	1283
LYNGBYA CONTORTA	FIL	11	25.0	928						
MALLOMONAS ACARICIDES	CEL			X						
MASTOGLOIA SMITHII				X						
MELOSIRA	CEL						X			X
MELOSIRA #4	CEL					2.0	770			
MELOSIRA DISTANS	CEL		2.4	79						
MELOSIRA GRANULATA	CEL									X
MELOSIRA GRANULATA V. ANGUSTISSIMA F. SPIRALIS	CEL		1.2	39						
MERISMOPEDIA GLAUCA	COL		1.9	59						
MERISMOPEDIA MINIMA	COL						X	3	10.2	2310
MERISMOPEDIA PUNCTATA	COL									X
MERISMOPEDIA TENUISSIMA	COL	4	11.9	394		2.0	770		2.8	642
MICROCYSTIS GLAUCA	COL			X						
MICROCYSTIS INCERTA	COL		5.9	197		3.0	1155	2	14.1	3208
MOUGEOTIA	FIL			X						
NAVICULA	CEL					1.0	385			
NAVICULA #1	CEL			X						
NAVICULA #2	CEL			X						
NAVICULA #3	CEL		0.6	20						
NITZSCHIA ?	CEL			X						
NITZSCHIA #1	CEL			X						
NITZSCHIA #2	CEL		0.6	20						
OOCYSTIS	CEL		0.9	20			X			X
OSCILLATORIA	FIL									X
OSCILLATORIA LIMNETICA	FIL	3	6.6	217	5	3.0	1155			
PAADORINA	COL									X
PEDIASTRUM BORYANUM	COL						X			
PEDIASTRUM CUPLEX V. GRACILIMUM	COL			X			X			
PEDIASTRUM DUPLEX V. RETICULATUM	COL									X
PEDIASTRUM SIMPLEX V. DUODENARIUM	COL			X						X

LAKE NAME: LAKE OKEECHOBEE
STORET NUMBER: 1232

CONTINUED

TAXA	FORM	03 10 73 S	03 10 73 %C	03 10 73 ALGAL UNITS PER ML	09 01 73 S	09 01 73 %C	09 01 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
PENNATE DIATOM	CEL		5.3	177				4	7.9	1795
PENNATE DIATOM #1	CEL					3.5	193			
PENNATE DIATOM #2	CEL					1.5	578			
PERIDINIUM PENARIFORME	CEL			X						
PLEUROSIGMA DELICATULUM	CEL			X						
SCENEDESMUS #1	COL					1.0	385		0.6	128
SCENEDESMUS #2	COL					0.5	193			
SCENEDESMUS ARCUATUS V. PLATYDISCA	COL						X			
SCENEDESMUS BIJUGA	COL						X			
SCENEDESMUS DIMORPHUS	COL									
SCENEDESMUS QUADRICAUDA	CEL		1.8	59						X
SCHROEDERIA SETIGERA	CEL		1.8	59			X			
SPHAERELLOPSIS ?	CEL									X
STAURASTRUM #1	CEL									X
STAURASTRUM #2	CEL						X			X
SURIRELLA	CEL						X			
SYNEDRA ACTINASTROIDES	CEL					0.5	193			
SYNEDRA ULNA	CEL		0.6	20						
TETRAEDRON	CEL						X			X
TETRASTRUM	COL									X
TETRASTRUM STAUROGENIAEFORME	COL									X
TREUBARIA	CEL					0.5	193			X
TOTAL				3312			37927			22712

LAKE NAME: LAKE POINSETT
STORET NUMBER: 1234

NYGAARD TROPHIC STATE INDICES

DATE	03 15 73	09 05 73	11 05 73
MYXOPHYCEAN	2.00 E	03/0 E	02/0 E
CHLOROPHYCEAN	4.00 E	02/0 E	01/0 E
EUGLENOPHYTE	0/06 ?	0/05 ?	0/03 ?
DIATOM	0.36 E	1.00 E	0.50 E
COMPOUND	10.0 E	06/0 E	04/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 15 73	09 05 73	11 05 73
GENUS	04	02	00
SPECIES	00	02	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 15 73	09 05 73	11 05 73
AVERAGE DIVERSITY	H	2.14	2.42	1.72
NUMBER OF TAXA	S	28.00	10.00	11.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	4.81	3.32	3.46
TOTAL DIVERSITY	D	7299.54	6400.90	861.72
TOTAL NUMBER OF INDIVIDUALS/ML	N	3411.00	2645.00	501.00
EVENESS COMPONENT	J	0.44	0.73	0.50
MEAN NUMBER OF INDIVIDUALS/TAXA	L	121.82	264.50	45.55
NUMBER/ML OF MOST ABUNDANT TAXON	K	1692.00	885.00	222.00

LAKE NAME: LAKE POINSETT
STORET NUMBER: 1234

CONTINUED

TAXA	FORM	07 15 73			09 05 73			11 05 73		
		%S	%C	ALGAL UNITS PER ML	%S	%C	ALGAL UNITS PER ML	%S	%C	ALGAL UNITS PER ML
CRYPTOMONAS EROSA	CEL	3	10.8	370						
CYCLOTELLA MENEGHINIANA	CEL			X	1	33.5	885			X
CYCLOTELLA SPP.	CEL	1	24.1	821						
CYCLOTELLA STELLIGERA	CEL			X						
DINOFLAGELLATE	CEL		0.4	12				2	16.4	82
EUCAPSIS ALPINA	COL									
Vs. MINOR	CEL	2	49.6	1692	3	24.2	00641	3	34.9	175
FLAGELLATE #1	CEL							1	44.3	222
FLAGELLATE #3	CEL				5	11.7	310			
FLAGELLATES	CEL	95	3.4	116						
FRAGILARIA CONSTRUENS	CEL									
GLENODINIUM	CEL		0.4	12						X
GOMPHONEMA	COL									
GOMPHOSPHAERIA ?	CEL			X						X
GYMNODINIUM ORDINATUM	CEL									
GYROSIGMA	CEL		0.7	25						X
MELOSIRA	CEL			X						
MELOSIRA #4	COL									
MERISMOPEDIA MINIMA	COL		0.3	10		1.7	44			
MERISMOPEDIA TENUISSIMA	COL					5.0	133			
MICROCYSTIS INCERTA	PIL							5	2.2	11
NOUGECTIA ?	CEL			X						
NAVICULA	CEL		4.0	139						
NITZSCHIA	CEL			X						
NITZSCHIA #1	CEL			X						
NITZSCHIA #2	CEL			X						
NITZSCHIA PALEA	CEL			X						
NITZSCHIA TRYBLIONELLA										
Vs. DEBILIS	CEL		0.3	10						
OOCYSTIS	CEL					0.8	22			
OSCILLATORIA ? CHLORINA	PIL									X
OSCILLATORIA LIMNETICA	PIL		0.3	10						
PEDIASTRUM SIMPLEX	COL			X						
PENNATE DIATOM	CEL					1.7	44			
PENNATE DIATOM #1	CEL			X						
SCENEDESMUS	COL					1.7	44	5	2.2	11
SCENEDESMUS ACUTUS	COL									
SCENEDESMUS PROTUBERANS	COL			X						X
SCENEDESMUS QUADRICAUDA ?	COL									
SPERMATOZOOPSIS	COL		0.4	12						
STAURASTRUM	CEL	4	5.5	185	2	19.7	522			
SUBIRELLA #1	CEL			X						
SUBIRELLA #2	CEL			X						
TETRASTRUM STAUROGENIAEFORME	CEL			X						
	COL			X						
TOTAL				3411			2545			501

LAKE NAME: LAKE REEDY
STORET NUMBER: 1236

NYGAARD TROPHIC STATE INDICES

DATE	03 12 73	09 05 73	11 07 73
MYXOPHYCEAN	6.00 E	5.50 E	3.25 E
CHLOROPHYCEAN	4.00 E	2.00 E	1.00 E
EUGLENOPHYTE	0/10 ?	0/15 ?	0/17 ?
DIATOM	0.60 E	0/04 ?	0.67 E
COMPOUND	13.0 E	7.50 E	4.75 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 12 73	09 05 73	11 07 73
GENUS	02	04	09
SPECIES	02	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 12 73	09 05 73	11 07 73
AVERAGE DIVERSITY	H	0.76	0.86	0.54
NUMBER OF TAXA	S	23.00	23.00	30.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	2.00	3.00
MAXIMUM DIVERSITY	MAXH	4.52	4.52	4.91
TOTAL DIVERSITY	D	24298.72	374139.56	377425.98
TOTAL NUMBER OF INDIVIDUALS/ML	N	31972.00	435046.00	698937.00
EVENESS COMPONENT	J	0.17	0.19	0.11
MEAN NUMBER OF INDIVIDUALS/TAXA	L	1390.09	18915.04	23297.90
NUMBER/ML OF MOST ABUNDANT TAXON	K	28769.00	378070.00	653868.00

LAKE NAME: LAKE REEDY
STOREY NUMBER: 1236

CONTINUED

TAXA	FORM	03 12 73 S	03 12 73 SC	03 12 73 ALGAL UNITS PER ML	09 05 73 S	09 05 73 SC	09 05 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 SC	11 07 73 ALGAL UNITS PER ML
ANABAENA	FIL				(2)	5.1	22330	(1)	2.1	14734
ANKISTRODESMUS ?	CEL		0.1	45						
APHANOCAPSA	COL					0.3	1347			
APHANOCAPSA DELICATISSIMA	COL					X			0.1	1040
APHANOTHECE	COL									X
APHANOTHECE #2	COL					0.0	192			
APHANOTHECE SAXICOLA	COL					X		(5)	0.4	2774
ASTERIONELLA FORMOSA V. GRACILLIMA	CEL		0.0	15						
CHLAMYDOMONAS	CEL								0.1	693
CHROOCOCCUS #1	COL					X			0.4	2607
CHROOCOCCUS #2	COL					0.4	1540			
COSMARIUM #1	CEL					0.0	192			X
COSMARIUM #2	CEL									X
COSMARIUM #3	CEL									X
CRYPTOMONAS	CEL		0.3	90					0.3	2254
CYANOPHYTAN FILAMENT #1	FIL				(1)	96.9	378070	(1)	99.6	653665
CYANOPHYTAN FILAMENT #2	FIL									
CYCLOTELLA MENEGHINIANA	CEL		0.4	120						
CYMBELLA	CEL					X				X
DACTYLOCOCCOPSIS	CEL									
DINOFLAGELLATE #1	CEL					0.0	192		0.1	520
ELAKATOTHRIX	CEL									X
FLAGELLATE #1	CEL					X			0.0	173
FLAGELLATE #2	CEL								0.1	693
FRAGILARIA CONSTRUENS	CEL		0.1	30						
GLENODINIUM	CEL			X						
GOMPHONEMA ACUMINATUM	CEL			X						
LYNGBYA CONTORTA	FIL	(3)	3.2	1023						
LYNGBYA LAGERHEIMII	FIL				(5)	0.8	3465			
LYNGBYA LAGERHEIMII ?	FIL							(4)	0.8	3987
LYNGBYA LIMNETICA	FIL				(4)	3.4	16762	(2)	1.4	10224
MALLOMONAS ACARICIDES	CEL	(4)	0.7	226						
MELOSIRA	CEL								0.3	2080
MELOSIRA GRANULATA	CEL			X						
MELOSIRA ITALICA	CEL			X						
MERISMOPEDIA	COL									
MERISMOPEDIA TENUISSIMA	COL								0.3	1907
MICROCYSTIS AERUGINOSA	COL	(2)	1.2	791		0.3	1155			X
MICROCYSTIS GLAUCA	COL	(2)	2.3	737					0.1	693
MICROCYSTIS INCERTA	COL		0.3	90						
NAVICULA	COL		0.8	241						
NITZSCHIA	CEL			X	(3)	2.1	8047		0.1	520
OOCYSTIS	CEL						X			
OSCILLATORIA	COL	(1)	90.0	29769						
PENNATE DIATOM	FIL		0.0	15						
PENNATE DIATOM #1	CEL									X
PERIDINIUM UMBONATUM	CEL					0.1	577			X
RHIZOSOLENIA	CEL	(5)	0.3	105						
SCENEDESMUS ABUNDANS	CEL									X
SCENEDESMUS PERFORATUS	COL						X			
STAURASTRUM	COL			X						
SYNEDRA	CEL			X			X			X
TETRAEDRON	CEL			X						
TETRAEDRON #1	CEL								0.3	173
TETRAEDRON GRACILE	CEL					0.1	385			X
TETRAEDRON MINIMUM	CEL		0.2	75		0.0	192			
TRESUBARIA	CEL						X			
TOTAL				31972			435046			529937

LAKE NAME: LAKE SOUTH
STORET NUMBER: 1238

NYGAARD TROPHIC STATE INDICES

DATE	09 05 73	11 05 73
MYXOPHYCEAN	1.17 E	2.33 E
CHLOROPHYCEAN	1.67 E	4.33 E
EUGLENOPHYTE	0.06 ?	0/14 ?
DIATOM	0/01 ?	0/01 ?
COMPOUND	3.00 E	4.67 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 05 73	11 05 73
GENUS	11	05
SPECIES	00	04

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 05 73	11 05 73
AVERAGE DIVERSITY	H	3.25	3.23
NUMBER OF TAXA	S	29.00	22.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	4.86	4.46
TOTAL DIVERSITY	D	8537.75	33717.97
TOTAL NUMBER OF INDIVIDUALS/ML	N	2627.00	10439.00
EVENESS COMPONENT	J	0.67	0.72
MEAN NUMBER OF INDIVIDUALS/TAXA	L	90.59	474.50
NUMBER/ML OF MOST ABUNDANT TAXON	K	715.00	2941.00

LAKE NAME: LAKE SOUTH
STOREY NUMBER: 1298

CONTINUED

TAXA	FORM	09 05 73			11 05 73		
		FS	BC	ALGAL UNITS PER ML	FS	BC	ALGAL UNITS PER ML
ANABAENA	FIL				41	6.6	691
BOTRYOCOCCUS BRAUNII	COL		1.2	32			
CARTERIA	CEL			X			
CERATIUM HIRUNDINELLA	CEL					4.1	432
CHROOCOCCUS	COL		1.2	32			
CHROOCOCCUS DISPERSUS	COL				11	14.9	1557
CLOSTERIUM	CEL			X			
COELASTRUM	COL		1.2	32			
COELASTRUM SAMBUCUM	COL			X			
COELOSPHAERIUM KUETZINGIANUM	COL	2	13.6	357			
COSMARIUM	CEL			X			
COSMARIUM #1	CEL					4.9	509
COSMARIUM #2	CEL					1.6	172
COSMARIUM #3	CEL			X			
COSMARIUM #4	CEL			X			
CRYPTOMONAS	CEL		4.9	130			
DACTYLOCOCCOPSIS	CEL					3.3	346
DICTYOSPHAERIUM	COL					1.6	172
DICTYOSPHAERIUM PULCHELLUM	COL						X
DINOFLAGELLATE	CEL					0.8	86
EUASTRUM	CEL						X
EUGLENA	CEL	5	6.2	162			
FLAGELLATES	CEL	31	19.8	520	31	28.2	2941
KIRCHNERIELLA	CEL		2.5	65			
LYNGBYA	FIL		1.2	32			
MERISMOPEDIA MINIMA	COL					4.9	509
MERISMOPEDIA PUNCTATA	COL		1.2	32			X
MICRACTINIUM	COL		2.5	65			
MICROCYSTIS AERUGINOSA	COL		1.2	32	5	5.8	605
MICROCYSTIS INCERTA	COL		2.5	65	2	18.2	1903
OSCILLATORIA LIMNETICA	FIL			X			
PENNATE DIATOM	CEL	4	9.9	260			
PENNATE DIATOMS	CEL					1.6	172
PERIDINIUM	CEL	1	27.2	715			X
SCENEDESMUS	COL		1.2	32			
SCENEDESMUS #1	COL		1.2	32		0.8	86
SCENEDESMUS #3	COL			X			
SCENEDESMUS QUADRICAUDA	COL					0.8	86
SCENEDESMUS QUADRICAUDA F. GRANULATAS	COL			X			
STAURASTRUM #1	CEL			X			
STAURASTRUM #3	CEL			X			
TETRAEDRON #1	CEL					0.8	86
TETRAEDRON #2	CEL						X
TETRAEDRON MINIMUM	CEL		1.2	32		0.9	96
TOTAL				2627			10439

LAKE NAME: LAKE TALQUIN
STORET NUMBER: 1239

NYGAARD TROPHIC STATE INDICES

DATE	06 20 73	08 31 73	11 05 73
MYXOPHYCEAN	1.50 E	2.00 E	06/0 E
CHLOROPHYCEAN	2.50 E	4.33 E	04/0 E
EUGLENOPHYTE	0.12 ?	0.05 ?	0/10 ?
DIATOM	0.43 E	0.67 E	1.67 E
COMPOUND	6.00 E	9.00 E	15/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	06 20 73	08 31 73	11 05 73
GENUS	10	15	07
SPECIES	00	04	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		06 20 73	08 31 73	11 05 73
AVERAGE DIVERSITY	H	2.82	3.02	2.09
NUMBER OF TAXA	S	26.00	39.00	21.00
NUMBER OF SAMPLES COMPOSITED	M	4.00	4.00	4.00
MAXIMUM DIVERSITY	MAXH	4.70	5.29	4.39
TOTAL DIVERSITY	D	4605.06	45112.76	17376.26
TOTAL NUMBER OF INDIVIDUALS/ML	N	1633.00	14938.00	8314.00
EVENESS COMPONENT	J	0.60	0.57	0.48
MEAN NUMBER OF INDIVIDUALS/TAXA	L	62.81	383.03	395.90
NUMBER/ML OF MOST ABUNDANT TAXON	K	585.00	6545.00	4697.00

LAKE NAME: LAKE TALQUIN
STORET NUMBER: 1239

CONTINUED

TAXA	FORM	06 20 73 S	06 20 73 BC	06 20 73 ALGAL UNITS PER ML	08 31 73 S	08 31 73 BC	08 31 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 BC	11 05 73 ALGAL UNITS PER ML
ANABAENA	FIL									
ASTERIONELLA	CEL	4	5.1	84		2.1	308			X
ATTHEYA	CEL		2.6	42			X			
CARTERIA	CEL			X						
CENTRIC DIATOM	CEL									
CHROOCOCCUS	COL									X
CHRYSOCOCCUS	COL					2.6	385		1.9	154
CLOSTERIUM #1	CEL					0.5	77			
CLOSTERIUM #2	CEL		2.6	42						
CRUCIGENIA APICULATA	COL			X			X			
CYCLOTELLA	CEL	1	35.8	585						
CYCLOTELLA ATOMUS	CEL				3	10.3	1540		3.7	308
CYCLOTELLA STELLIGERA	CEL					1.5	231			
CACTYLOCOCCOPSIS	CEL				5	7.2	1078		1.9	154
DICTYOSPHAERIUM	COL			X						
DICTYOSPHAERIUM PULCHELLUM	COL						X			
DINOBRYON BAVARICUM	CEL								0.9	77
DINOFLAGELLATE	CEL	3	5.1	84		0.5	77	6	1.9	154
EUASTRUM	CEL						X			
EUGLENA	CEL			X			X			
FLAGELLATE #1	CEL	2	25.6	418		1.5	231			
FLAGELLATE #2	CEL		5.1	84						
FLAGELLATES	CEL				2	10.3	1540	3	17.6	1463
GOLENKINIA	CEL					1.0	154			
GONIUM PECTORALE	COL			X						
LAGERHEIMIA SUBSALSA	CEL						X			
LYNGBYA	FIL		2.6	42		2.6	385			
MELOSIRA	CEL			X						
MELOSIRA #2	CEL				1	43.8	6545	2	11.1	922
MELOSIRA #4	CEL							1	56.5	4697
MELOSIRA GRANULATA	CEL									X
MICROCYSTIS INCERTA	COL								0.9	77
NAVICULA ?	CEL			X						
NAVICULA #1	CEL				4	6.7	1001			
NAVICULA #2	CEL						X			
NAVICULA #3	CEL						X			
NITZSCHIA	CEL			X			X			
OSCILLATORIA	FIL			X		2.6	385			X
OSCILLATORIA LIMNETICA	FIL	5	5.1	84			X			X
PANDORINA MORUM	COL						X			
PEDIASTRUM DUPLEX	COL									
V. GRACILIMUM							X			X
PEDIASTRUM DUPLEX	COL									
V. RETICULATUM						0.5	77			
PEDIASTRUM TETRAS	COL					0.5	77			
V. TETRAODON	CEL		2.6	42					1.9	154
PENNATE DIATOM #1	CEL			X			X			X
PENNATE DIATOM #2	CEL		2.6	42						
PENNATE DIATOM #3	CEL						X			
POLYEDRIOPSIS SPINULOSA ?	FIL					0.5	77			
RAPHICIOPSIS	COL									X
SCENEDESMUS	COL		5.1	84				5	1.9	154
SCENEDESMUS #1	COL			X						
SCENEDESMUS ABUNDANS	COL					1.0	154			
SCENEDESMUS BICALDATUS	COL			X			X			X
SCENEDESMUS DENTICULATUS	CEL					1.0	154			
V. LINEARIS	CEL						X			
SCENEDESMUS DISPAR	CEL					2.6	385			
SCENEDESMUS QUADRICAUDA	CEL						X			
SCHROEDERIA ?	CEL			X						
SPERMATOZOOPSIS	CEL			X						V
STAURASTRUM #1	CEL						X			
STAURASTRUM #2	CEL					0.5	77			
SYNEDRA										
SYNEDRA ?										
TETRAEDRON #1										
TOTAL				1633			14938			8314

LAKE NAME: LAKE THONOTOSSASSA
STORET NUMBER: 1240

NYGAARD TROPHIC STATE INDICES

DATE	03 09 73	09 04 73	11 06 73
MYXOPHYCEAN	7.00 E	09/0 E	3.50 E
CHLOROPHYCEAN	14.0 E	09/0 E	8.50 E
EUGLENOPHYTE	0.05 ?	0.06 ?	0.08 ?
DIATOM	1.00 E	1.00 E	3.00 E
COMPOUND	25.0 E	21/0 E	14.5 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 09 73	09 04 73	11 06 73
GENUS	15	09	14
SPECIES	00	04	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 09 73	09 04 73	11 06 73
AVERAGE DIVERSITY	H	3.58	2.79	3.60
NUMBER OF TAXA	S	71.00	27.00	38.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	6.15	4.75	5.25
TOTAL DIVERSITY	D	74707.44	284780.42	216421.20
TOTAL NUMBER OF INDIVIDUALS/ML	N	20868.00	102439.00	60117.00
EVENESS COMPONENT	J	0.58	0.59	0.69
MEAN NUMBER OF INDIVIDUALS/TAXA	L	293.92	3794.04	1582.03
NUMBER/ML OF MOST ABUNDANT TAXON	K	4739.00	35822.00	10562.00

LAKE NAME: LAKE THONOTOSSASSA
STORET NUMBER: 1240

CONTINUED

TAXA	FORM	03 09 73			09 04 73			11 06 73		
		%S	%C	ALGAL UNITS PER ML	%S	%C	ALGAL UNITS PER ML	%S	%C	ALGAL UNITS PER ML
ANABAENA	FIL		X							
ANABAENOPSIS	FIL		0.6	122		0.7	669		1.1	691
ANKISTRODESMUS	CEL		1.0	203						
APHANOCAPSA	COL			X						
CENTRIC DIATOM	CEL									
CENTRIC DIATOMS	CEL		2.7	567				1	17.6	10562
CHLAMYDOMONAS	CEL		0.6	122						
CHLOROGONIUM	CEL									
CHLOROPHYTAN LUNATE CELL	CEL		0.4	81			X			
CHROOCOCCUS	COL		0.6	122		0.3	335		1.3	789
CHRYSOPHYTAN FLAGELLATE	CEL								0.3	198
COCCONEIS	CEL			X						
COSMARIUM	CEL		0.2	41						
CRUCIGENIA APICULATA	COL			X					0.7	395
CRUCIGENIA TETRAPEDIA	COL									
CRYPTOMONAS ?	CEL								0.5	296
CRYPTOMONAS EROSA	CEL		1.7	365		1.0	1004			
CYANOPHYTAN COCCOID CELLED COLONY	CEL			X						
CYANOPHYTAN COLONY	COL		3.1	649						
CYCLOTELLA	CEL				1	33.3	34148			
CYCLOTELLA MENEGHINIANA	CEL						X			
CYCLOTELLA STELLIGERA	CEL			X						
DACTYLOCOCCOPSIS	CEL			X						
DICTYOSPHAERIUM	CEL	3	22.7	4739	2	35.0	35822	2	17.4	10464
DINOFLAGELLATE	COL		0.8	162						
EUGLENA	CEL			X						
FLAGELLATE	CEL		0.2	41					0.2	99
FLAGELLATE #1	CEL		0.6	122			X		0.2	99
FLAGELLATES	CEL		0.4	81						
GOLENKINIA	CEL					1.6	1674		11.7	07008
GOLENKINIA RADIATA	CEL				5	4.2	4352		2.5	1480
GOLENKINIA RADIATA ?	CEL		1.9	405						
GONIUM	COL									X
NANTZSCHIA	CEL									X
KIRCHNERIELLA	CEL			X						
KIRCHNERIELLA #1	CEL								1.6	987
KIRCHNERIELLA #2	CEL			X						
KIRCHNERIELLA SPP.	CEL			X						
LAGERHEIMIA	CEL		2.7	567						
LYNGBYA	CEL									
LYNGBYA #1	FIL	5	4.1	851					0.2	99
LYNGBYA #2	FIL									
LYNGBYA CIRCUMCRETA ?	FIL								2.8	1678
LYNGBYA LIMNETICA	FIL					0.7	669		2.8	1678
MELOSIRA	CEL					1.0	1004			
MELOSIRA #2	CEL									
MELOSIRA GRANULATA	CEL						X		3.0	1777
MELOSIRA ITALICA	CEL			X						
MELOSIRA SPP.	CEL			X						X
MERISMOPEDIA	COL	1	22.1	4617						
MERISMOPEDIA MINIMA	COL									
MERISMOPEDIA TENUISSIMA	COL		0.2	41					2.5	1480
MICRACTINIUM	COL					3.3	335			
MICRACTINIUM PUSILLUM	COL								0.2	99
MICROCYSTIS	COL									X
MICROCYSTIS #1	COL			X				4	7.9	4738
MICROCYSTIS #2	COL		0.2	41						
MICROCYSTIS INCERTA	COL		1.2	243						
NAVICULA	CEL		0.2	41		0.3	335			
NITZSCHIA #1	CEL			X			X			
NITZSCHIA #2	CEL			X		0.7	669			
NITZSCHIA SPP.	CEL		1.4	284		0.7	669			
OOCYSTIS	CEL		0.4	81						
PANDORINA	COL		0.2	41						
PEDIASTRUM DUPLEX	COL									X
PEDIASTRUM DUPLEX V. CLATHRATUM	COL								0.2	99
PEDIASTRUM SIMPLEX	COL		0.2	X						
PEDIASTRUM SIMPLEX V. CUCCENARIUM	COL			41						
PEDIASTRUM TETRAS	COL									X
PEDIASTRUM TETRAS V. TETRAODON	COL			X						
PENNATE DIATOM	COL									
PHACUS	CEL			X						
PTEROMONAS	CEL									X
PTEROMONAS ANGULOSA	CEL		0.2	41					5.3	3160
RAPHIDIOPSIS	CEL					0.7	669		0.2	99
RAPHIDIOPSIS CURVATA	FIL		0.6	122					2.3	1382
SCENEDESMUS #1	FIL		1.7	365		1.3	1339			
SCENEDESMUS #2	COL			X						
SCENEDESMUS #3	COL					2.6	2678			
SCENEDESMUS ABUNDANS	COL					1.3	1339			
SCENEDESMUS ACUMINATUS	COL				4	3.9	4017			
	COL			X	3	6.2	6361			
				X						

LAKE NAME: LAKE THONOTOSSASSA CONTINUED
STORET NUMBER: 1240

TAXA	FORM	03 09 73 S	03 09 73 %C	03 09 73 ALGAL UNITS PER ML	09 04 73 S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
SCENEDESMUS ARCUATUS										
V. PLATYDISCA	COL			X						
SCENEDESMUS BIJUGA	COL			X						
SCENEDESMUS CARINATUS	COL			X						
SCENEDESMUS DENTICULATUS	COL			X						
SCENEDESMUS DENTICULATUS										
V. LINEARIS	COL			X						
SCENEDESMUS DIMORPHUS	COL			X					0.7	395
SCENEDESMUS OPOLIENSIS	COL			X						
SCENEDESMUS PROTUBERANS	COL			X						
SCENEDESMUS QUADRICAUDA	COL			X		2.6	2678			
SCENEDESMUS SPP.	COL	2	17.9	3726		1.0	1004	3	18.1	9674
SCHROEDERIA SETIGERA	CEL		0.4	81						
SPERMATOZOOPSIS	CEL		1.9	405						
STAURASTRUM	CEL			X						X
STEPHANODISCUS	CEL			X						
SYNEDRA	CEL			X						
TETRAEDRON #1	CEL								0.8	493
TETRAEDRON #2	CEL								0.2	99
TETRAEDRON CAUDATUM										
V. LONGISPINUM	CEL		0.6	122						
TETRAEDRON HASTATUM	CEL			X						
TETRAEDRON MINIMUM	CEL	4	4.7	972						X
TETRAEDRON MUTICUM	CEL					0.7	669			
TETRAEDRON TRIGONUM										
V. GRACILE	CEL		0.2	41						
TETRASTRUM	COL								0.2	99
TETRASTRUM GLABRUM	COL		1.6	324						
TETRASTRUM HETERACANTHUM	COL									X
TOTAL				20968			102439			60117

LAKE NAME: LAKE TOHOPEKALIGA
STORET NUMBER: 1241

NYGAARD TROPHIC STATE INDICES

DATE	03 13 73	09 06 73	11 07 73
MYXOPHYCEAN	3.50 E	09/0 E	3.67 E
CHLOROPHYCEAN	6.50 E	17/0 E	6.00 E
EUGLENOPHYTE	0/40 ?	0.04 ?	0.07 ?
DIATOM	1.00 E	1.00 E	1.00 E
COMPOUND	11.5 E	30/0 E	11.6 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 13 73	09 06 73	11 07 73
GENUS	16	10	07
SPECIES	07	04	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 13 73	09 06 73	11 07 73
AVERAGE DIVERSITY	H	4.62	3.93	3.59
NUMBER OF TAXA	S	63.00	37.00	43.00
NUMBER OF SAMPLES COMPOSITED	M	4.00	4.00	4.00
MAXIMUM DIVERSITY	MAXH	5.98	5.21	5.43
TOTAL DIVERSITY	D	56872.20	99256.08	61245.40
TOTAL NUMBER OF INDIVIDUALS/ML	N	12310.00	25256.00	17060.00
EVENESS COMPONENT	J	0.77	0.75	0.66
MEAN NUMBER OF INDIVIDUALS/TAXA	L	195.40	682.59	396.74
NUMBER/ML OF MOST ABUNDANT TAXON	K	2575.00	4466.00	4747.00

LAKE NAME: LAKE TOHOPEKALIGA
STOREY NUMBER: 1241

CONTINUED

TAXA	FORM	03 13 73 S	03 13 73 BC	03 13 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 BC	09 06 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 BC	11 07 73 ALGAL UNITS PER ML
ACTINASTRUM HANTZSCHII	COL									X
ANABAENA #1	FIL	3	4.6	567		0.6	154		1.5	256
ANABAENA #2	FIL		1.1	131						
ANABAENA LAXA	FIL	5	3.9	480						
ANABAENOPSIS ELENKINII	FIL			X						
ANKISTRODESMUS FALCATUS	CEL		1.4	175						
APHANIZOMENON FLOS-AQUAE	FIL		1.4	175						X
APHANOCAPSA ELACHISTA	COL			X						
APHANOTHECE	COL									X
CENTRIC DIATOM	CEL		0.7	87						
CHROOCOCCUS	COL			X		1.8	462			
CHROOCOCCUS DISPERSUS	COL							4	5.3	898
CLOSTERIUM	CEL									X
COCCONEIS PLACENTULA	CEL			X						
COCCONEIS PLACENTULA V. EUGLYPTA	CEL		0.4	44			X		2.3	385
COELASTRUM	COL									
COELASTRUM RETICULATUM	COL		4.3	524						
COELASTRUM SPHAERICUM	COL		0.4	44						
COELOSPHAERIUM PALLIDUM	COL		0.4	44						
COSMARIUM #1	CEL		0.7	87						
COSMARIUM #2	CEL		0.4	44						X
CRUCIGENIA APICULATA	COL		2.5	306					0.8	128
CRUCIGENIA CRUCIFERA	COL								0.8	128
CRUCIGENIA LAUTERBORNII	COL						X			
CRUCIGENIA TETRAPEDIA	COL		0.4	44						
CRYPTOMONAS EROSA	CEL		0.4	44		1.2	308			
CYANOPHYTAN FILAMENT	FIL					5.5	1386		0.8	128
CYCLOTELLA	CEL			X						
CYCLOTELLA MENEGHINIANA	CEL			X						
CYCLOTELLA STELLIGERA	CEL		5.0	611	3	17.7	4466		0.8	128
DACTYLOCOCCOPSIS	COL						X			
DICHOTHOCOCCUS	COL		2.1	262		2.4	616			X
DICTYOSPHAERIUM PULCHELLUM	CEL			X						
DINOBRYON BAVARICUM	CEL		4.3	524						
DINOBRYON DIVERGENS	CEL					0.6	154			
DINOFLAGELLATE	CEL									X
EUASTRUM	CEL			X						
EUASTRUM DENTICULATUM	CEL									X
EUGLENA #1	CEL									X
EUGLENA #2	CEL		3.2	393						
FLAGELLATE #1	CEL				2	12.8	3234	1	27.8	4747
FLAGELLATES	CEL					0.6	154			
FRANCEIA	CEL		2.1	262						
GOLENKINIA RADIATA	CEL						X			
KIRCHNERIELLA	CEL			X						
LUNATE CELL	FIL		0.4	44					5.3	898
LYNGBYA	FIL					1.8	462			
LYNGBYA #1	FIL								3.0	513
LYNGBYA CIRCUMCRETA	FIL		1.1	131						
LYNGBYA CONTORTA	FIL					1.2	308			
LYNGBYA LIMNETICA	CEL			X						
MALLOMONAS ACAROIDES	CEL		0.7	87		2.4	616			
MELOSIRA	CEL							3	8.9	1411
MELOSIRA #2	CEL		4.6	567						X
MELOSIRA #4	CEL		1.4	175		6.1	1540		3.0	513
MELOSIRA DISTANS	CEL								4.5	770
MELOSIRA GRANULATA	COL					1.8	462		2.3	385
MERISMOPEDIA MINIMA	COL		0.7	87						
MERISMOPEDIA TENUISSIMA	COL		0.4	44			X			
MICRACTINIUM PUSILLUM	COL						X			
MICROCYSTIS #1	COL	2	5.7	698		3.7	924	5	10.5	1796
MICROCYSTIS INCERTA	CEL			X			X			
NAVICULA	CEL		3.9	480						
NITZSCHIA	CEL				5	6.1	1540			
NITZSCHIA #1	CEL					1.8	462			
NITZSCHIA #2	CEL		1.8	218						
OOCYSTIS	FIL		0.7	87						
OSCILLATORIA LIMNETICA	COL						X			
PANDORINA MORUM	COL			X						X
PEDIASTRUM BORYANUM	COL			X						
PEDIASTRUM DUPLEX V. ?	COL									X
PEDIASTRUM SIMPLEX V. DUODENARIUM	COL						X			
PEDIASTRUM TETRAS	COL									X
PEDIASTRUM TETRAS V. TETRAODON	COL		1.8	218						
PENNATE DIATOM	CEL		0.4	44					3.0	513
PENNATE DIATOM #1	CEL									X
PENNATE DIATOM #2	CEL									

LAKE NAME: LAKE TOHOPEKALIGA
STORET NUMBER: 1241

CONTINUED

TAXA	FORM	03 13 73 S	03 13 73 %C	03 13 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
PENNATE DIATOM #3	CEL								0.8	128
PENNATE DIATOM #4	CEL								2.3	385
PERIDINIUM UMBONATUM	CEL		0.4	44						
PINNULARIA	CEL			X						
RAPHIDIOPSIS	FIL								0.8	128
SCENEDESMUS	COL							12	12.8	2181
SCENEDESMUS #3	CCL									X
SCENEDESMUS ABUNDANS	COL	11	20.9	2575		6.7	1694		3.8	641
SCENEDESMUS ACUMINATUS	COL					3.0	770			
SCENEDESMUS ARCUATUS	CCL		1.1	131						
SCENEDESMUS BICAUDATUS	COL		3.5	436						
SCENEDESMUS BIJUGA	COL					1.8	462			
SCENEDESMUS DENTICULATUS	COL						X			
SCENEDESMUS DIMORPHUS	COL		1.4	175						X
SCENEDESMUS OPOLIENSIS	COL	4	5.3	655	11	12.8	3234			X
SCENEDESMUS QUADRICAUDA	CCL		1.8	218	4	6.1	1540			
SCHROEDERIA SETIGERA	CEL		0.7	87						
SELENASTRUM	COL						X			
STAURASTRUM	CEL			X						
TETRAEDRON CAUDATUM										
V. LONGISPINUM	CEL		0.7	87						
TETRAEDRON GRACILE	CEL						X			X
TETRAEDRON MINIMUM	CEL		0.7	87						X
TETRAEDRON MINIMUM										
V. SCROBICULATUM	CEL			X						
TETRAEDRON MUTICUM	CEL			X		0.6	154			X
TETRAEDRON TRIGONUM	CEL			X						
TETRAEDRON TRIGONUM										
V. GRACILE	CEL									X
TETRASTRUM HETERACANTHUM	CCL		0.7	87						
TETRASTRUM STAUROGENIAEFORME	COL			X			X			X
TRACHELOMONAS	CEL					0.6	154			
TOTAL				12310			25256			17060

LAKE NAME: TROUT LAKE
STORET NUMBER: 1242

NYGAARD TROPHIC STATE INDICES

DATE	09 06 73	11 05 73
MYXOPHYCEAN	13/0 E	2.50 E
CHLOROPHYCEAN	21/0 E	5.00 E
EUGLENOPHYTE	0.15 ?	0.10 ?
DIATOM	2.00 E	1.00 E
COMPOUND	41/0 E	8.75 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 06 73	11 05 73
GENUS	25	22
SPECIES	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 06 73	11 05 73
AVERAGE DIVERSITY	H	3.29	3.99
NUMBER OF TAXA	S	48.00	47.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	5.58	5.55
TOTAL DIVERSITY	D	231902.23	101976.42
TOTAL NUMBER OF INDIVIDUALS/ML	N	70487.00	25558.00
EVENESS COMPONENT	J	0.59	0.72
MEAN NUMBER OF INDIVIDUALS/TAXA	L	1468.48	543.79
NUMBER/ML OF MOST ABUNDANT TAXON	K	29668.00	4287.00

LAKE NAME: TROUT LAKE
STORET NUMBER: 1242

CONTINUED

TAXA	FORM	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
ACANTHOSPHAERA ZACHARIASI	CEL					0.3	79
ACTINASTRUM HANTZSCHII	COL			X			
ANABAENA #1	FIL		0.6	453			
ANABAENA #2	FIL		1.7	1189			
ANKISTRODESMUS	CEL			X			
ANKISTRODESMUS #2	CEL		0.3	226			
APHANOTHECE	COL			X		0.3	79
CAPTERIA	CEL			X			X
CENTRIC DIATOM	CEL	4	5.6	3963			
CENTRIC DIATOMS	CEL				1	16.8	4287
CHLAMYDOMONAS	CEL		4.3	3057			
CHLOROGONIUM	CEL			X		0.3	79
CHROOCOCCUS	COL	3	5.1	3624	4	6.5	1667
CHROOCOCCUS LIMNETICUS	COL						X
CLOSTERIUM #1	CEL					0.3	79
CLOSTERIUM #2	CEL						X
COELASTRUM MICROPORUM	COL					0.3	79
COELOSPHAERIUM	COL			X			
COSMARIUM	CEL					1.2	318
CRUCIGENIA #1	COL					0.9	238
CRUCIGENIA TETRAPEDIA	COL					2.2	556
CYCTYLOCCCCCPSIS	CEL		0.5	340		0.3	79
DICTYOSPHAERIUM	COL		2.2	1585		1.6	397
DINOFLAGELLATE	CEL		0.3	226		0.3	79
ELAKATOTHRIX	COL			X		0.3	79
EUASTRUM	CEL						X
EUGLENA	CEL		1.9	1359		0.3	79
FLAGELLATES	CEL		13.7	09625	3	14.9	3810
FRANCEIA TUBERCULATA	CEL		0.5	340			X
GLOEOTHECE	COL	5	4.8	3397		2.8	714
GOLENKINIA RADIATA	CEL			X			X
KIRCHNERIELLA	CEL		1.3	1359		3.1	794
LYNGBYA #1	FIL		0.2	113		2.8	714
MELOSIRA	CEL	1	42.1	29668	2	10.6	2699
MERISMOPEDIA #2	COL						X
MERISMOPEDIA MINIMA	COL					2.2	556
MERISMOPEDIA SPP.	COL		1.1	793			
MICRACTINIUM	COL		0.5	340		0.3	79
MICRACTINIUM PUSILLUM	COL			X			
MICROCYSTIS	COL		1.8	1246	5	8.1	2064
OOCYSTIS	CEL						X
OSCILLATORIA	FIL					6.2	1588
OSCILLATORIA #1	FIL		1.3	906			
OSCILLATORIA #2	FIL			X			
PANDORINA	COL						X
PEDIASTRUM DUPLEX V. RETICULATUM	COL		0.6	453		1.2	318
PEDIASTRUM SIMPLEX V. DUODENARIUM	COL			X			
PEDIASTRUM TETRAS V. TETRADON	COL						X
PENNATE DIATOM	CEL		0.8	566		5.9	1508
PHACUS	CEL			X			
PHACUS #1	CEL					0.9	238
PHACUS HELIKOIDES	CEL		0.3	226			
PHACUS PYRUM	CEL		0.2	113			X
PLATYDORINA CAUDATUM	COL			X			
POLYEDRIOPSIS SPINULOSA	CEL			X			X
PTEROMONAS	CEL		1.4	1019		2.2	556
SCENEDESMUS	COL		4.2	2944		5.6	1429
SCHROEDERIA	CEL		0.3	226			X
SELENASTRUM	COL		0.2	113			X
SYNEDRA ACTINASTROIDES	CEL					0.3	79
TETRAEDRON	CEL			X			
TETRAEDRON #1	CEL					0.8	159
TETRAEDRON #2	CEL		0.2	113			
TETRAEDRON #4	CEL		0.3	226			
TETRAEDRON GRACILE	CEL		0.3	226			
TETRAEDRON REGULARE	CEL					0.3	79
TETRAEDRON REGULARE V. GRANULATA	CEL						X
TETRASTRUM ELEGANS	COL		0.5	340			
TRACHELOMONAS	CEL		0.2	113			
TOTAL				70487			25556

LAKE NAME: LAKE ЊEOHYAKAPKA
STORET NUMBER: 1243

NYGAARD TROPHIC STATE INDICES

DATE	09 05 73	11 07 73
MYXOPHYCEAN	08/0 E	10/0 E
CHLOROPHYCEAN	07/0 E	10/0 E
EUGLENOPHYTE	0/15 ?	0.05 ?
DIATOM	1.33 E	0.56 E
COMPOUND	19/0 E	26/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 05 73	11 07 73
GENUS	17	14
SPECIES	04	05

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 05 73	11 07 73
AVERAGE DIVERSITY	H	2.79	4.07
NUMBER OF TAXA	S	26.00	45.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	3.00
MAXIMUM DIVERSITY	MAXH	4.70	5.49
TOTAL DIVERSITY	D	20760.39	19938.93
TOTAL NUMBER OF INDIVIDUALS/ML	N	7441.00	4899.00
EVENESS COMPONENT	J	0.59	0.74
MEAN NUMBER OF INDIVIDUALS/TAXA	L	286.19	108.87
NUMBER/ML OF MOST ABUNDANT TAXON	K	3593.00	1220.00

LAKE NAME: LAKE WEOHYAKAPKA
STORET NUMBER: 1243

CONTINUED

TAXA	FORM	09 05 73 S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
ANABAENA ?	FIL			X			
CENTRIC DIATOM	CEL					2.8	137
CHLOROPHYTAN FLAGELLATE	CEL				3	11.9	581
CHROOCOCCUS	COL			X		0.3	17
CHRYSOPHYTAN FLAGELLATE	CEL					4.1	202
COCCONEIS	CEL					0.7	34
COELASTRUM	COL					0.7	34
CRUCIGENIA LAUTERBORNII	COL			X			
CRUCIGENIA TETRAPEDIA	COL					0.7	34
CRYPTOMONAS	CEL					0.7	34
CYANOPHYTAN COLONY	COL						X
CYCLOTELLA	CEL	2	11.0	821			
CYCLOTELLA STELLIGERA	CEL						X
DICHOTOMOCOCCUS	COL		2.1	154			
DICTYOSPHAERIUM PULCHELLUM	COL		0.7	51		0.3	17
DINOBRYON	CEL		0.7	51			
DINOFLAGELLATE	CEL						X
DINOFLAGELLATE #1	CEL					0.7	34
EUGLENA	CEL				4	1.7	84
FLAGELLATE #1	CEL					8.9	438
FLAGELLATE #3	CEL					2.1	101
FLAGELLATES	CEL	1	48.3	3593			
GOLENKINIA RADIATA	CEL		0.7	51			
KIRCHNERIELLA	CEL						X
LYNGBYA	FIL					1.4	67
LYNGBYA #2	FIL					1.7	85
LYNGBYA CIRCUMCRETA ?	FIL						X
LYNGBYA LIMNETICA	FIL		1.4	103			
MALLOMONAS	CEL					0.3	17
MELOSIRA #2	CEL	3	4.1	308		0.3	17
MELOSIRA DISTANS	CEL	4	9.7	719	1	24.9	1220
MELOSIRA GRANULATA ?	CEL				2	5.6	273
MERISMOPEDIA PUNCTATA	COL			X			
MERISMOPEDIA TENUISSIMA	COL		2.8	205		1.0	51
MICRACTINIUM	COL		0.7	51			
MICRACTINIUM PUSILLUM	COL			X			
MICROCYSTIS	COL					1.7	85
MICROCYSTIS INCERTA	COL			X		4.5	219
NAVICULA	CEL						X
NITZSCHIA	CEL		4.1	308			
NITZSCHIA ACICULARIS	CEL						X
NITZSCHIA FILIFORMIS	CEL						X
NITZSCHIA PALEA	CEL					2.1	101
OOCYSTIS	COL					1.4	67
OSCILLATORIA	FIL					0.7	34
OSCILLATORIA #2	FIL		2.1	154			
OSCILLATORIA LIMNETICA	FIL	5	4.1	308			
PENNATE DIATOM #1	CEL					0.7	34
PENNATE DIATOM #2	CEL				5	1.7	85
PERIDINIUM WISCONSINENSE ?	CEL						X
PHORMIDIUM MUCICOLA	COL					0.7	34
RHIZOSOLENIA	CEL			X			
SCENEDESMUS #1	COL					2.8	137
SCENEDESMUS DENTICULATUS	COL					0.7	34
SCENEDESMUS QUADRICAUDA	COL		0.7	51		0.3	17
SPERMATOZOOPSIS	CEL		5.5	411		9.3	406
STAURONEIS	CEL			X			
SURIRELLA	CEL					0.7	34
SYNEDRA	CEL		0.7	51			
SYNEDRA ULNA	CEL					0.3	17
TETRAEDRON	CEL					0.3	17
TETRAEDRON MINIMUM	CEL					2.1	101
TETRAEDRON MUTICUM	CEL		0.7	51			
TOTAL				7441			4899

LAKE NAME: LAKE YALE
STORET NUMBER: 1246

NYGAARD TROPHIC STATE INDICES

DATE	09 06 73	11 05 73
MYXOPHYCEAN	2.33 E	4.33 E
CHLOROPHYCEAN	0.50 ?	1.67 E
EUGLENOPHYTE	0/17 ?	0.06 ?
DIATOM	0.40 E	3.00 E
COMPOUND	3.17 E	7.33 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 06 73	11 05 73
GENUS	03	12
SPECIES	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 06 73	11 05 73
AVERAGE DIVERSITY	H	3.07	2.33
NUMBER OF TAXA	S	33.00	30.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00
MAXIMUM DIVERSITY	MAXH	5.04	4.91
TOTAL DIVERSITY	D	148305.56	177629.88
TOTAL NUMBER OF INDIVIDUALS/ML	N	48308.00	76236.00
EVENESS COMPONENT	J	0.61	0.47
MEAN NUMBER OF INDIVIDUALS/TAXA	L	1463.88	2541.20
NUMBER/ML OF MOST ABUNDANT TAXON	K	17498.00	29283.00

LAKE NAME: LAKE YALE
STORET NUMBER: 1246

CONTINUED

TAXA	FORM	09 05 73 S	09 05 73 %C	09 05 73 ALGAL UNITS PER ML	11 03 73 S	11 03 73 %C	11 03 73 ALGAL UNITS PER ML
ANABAENA #1	FIL		0.3	157			
ANABAENA #2	FIL			X			
ANABAENOPSIS	FIL		0.3	157			
APHANOCAPSA DELICATISSIMA	COL		2.0	943	5	2.7	2056
APHANOTHECE NIDULANS	COL		0.3	157		1.8	1371
APHANOTHECE SAXICOLA	COL			X			X
CENTRIC DIATOM	CEL						X
CHROOCOCCUS	COL					0.5	409
CHROOCOCCUS DISPERSUS	COL						X
CHROOCOCCUS DISPERSUS ?	COL		0.3	157			
CLOSTERIUM	CEL			X			
COELASTRUM	COL						X
COSMARIUM #1	CEL		3.6	1729		0.2	131
COSMARIUM #2	CEL						X
CYANOPHYTAN FILAMENT #1	FIL				4	4.7	3573
CYANOPHYTAN FILAMENT #2	FIL						X
DACTYLOCOCCOPSIS FASCICULARIS	CEL						X
DICTYOSPHAERIUM PULCHELLUM	COL						X
DINOFLAGELLATE	CEL		0.3	157		0.2	131
EUGLENA	CEL						X
FLAGELLATE	CEL					0.2	131
FLAGELLATE #1	CEL		0.6	314			
GOLEAKINIA ?	CEL			X			
LYNGBYA #1	FIL	2	21.5	10376			
LYNGBYA #2	FIL	3	11.7	5660	2	32.1	24470
LYNGBYA CIRCUMCRETA	FIL	4	4.2	2044			
LYNGBYA CIRCUMCRETA ?	FIL					2.7	2056
LYNGBYA LIMNETICA	FIL	5	3.9	1887	1	38.4	29283
MELOSIRA	CEL			X			
MELOSIRA GRANULATA	CEL						X
MICROCYSTIS #1	COL		0.3	157			
MICROCYSTIS INCERTA	COL		1.0	472			
MICROCYSTIS PULVEREA	COL						X
NOSTOC	FIL		0.3	157		1.1	824
OSCILLATORIA	FIL					0.5	408
PENNATE DIATOM #1	CEL		0.3	157			
PENNATE DIATOM #2	CEL		0.3	157			
PENNATE DIATOM #3	CEL		1.6	786			
PENNATE DIATOM #4	CEL		0.3	157			
RAPHIDIOPSIS ?	FIL		5.2	2515			
RHIZOSOLENIA	CEL					0.4	269
RHIZOSOLENIA ERIENSIS	CEL		2.3	1101			
SCENEDESMUS #1	COL					0.4	269
SCENEDESMUS #2	COL						X
SPHAERELLOPSIS	FIL						X
STAURASTRUM #1	CEL		0.6	314			X
STAURASTRUM #2	CEL			X			
STAURASTRUM #3	CEL		0.3	157			
STAURASTRUM #4	CEL		0.6	314			
SYNEDRA	CEL	1	36.2	17498	3	13.9	10587
TETRAEDRON	CEL		0.6	314			
TETRAEDRON MINIMUM	CEL		0.6	314			
TETRAEDRON MINIMUM V. SCROBICULATUM	CEL					0.4	269
TOTAL				48308			76236

LAKE NAME: LAKE MUNSON
STORET NUMBER: 1247

NYGAARD TROPHIC STATE INDICES

DATE	06 20 73	08 30 73	11 05 73
MYXOPHYCEAN	7.00 E	08/0 E	10/0 E
CHLOROPHYCEAN	12.0 E	19/0 E	19/0 E
EUGLENOPHYTE	0.11 ?	0.04 ?	0.10 ?
DIATOM	1.00 E	0/01 ?	3.00 E
COMPOUND	23.0 E	28/0 E	35/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	06 20 73	08 30 73	11 05 73
GENUS	14	17	20
SPECIES	06	07	05

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		06 20 73	08 30 73	11 05 73
AVERAGE DIVERSITY	H	3.55	3.76	2.74
NUMBER OF TAXA	S	32.00	34.00	46.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	5.00	5.09	5.52
TOTAL DIVERSITY	D	65888.00	45026.00	286924.58
TOTAL NUMBER OF INDIVIDUALS/ML	N	18560.00	11975.00	104717.00
EVENESS COMPONENT	J	0.71	0.74	0.50
MEAN NUMBER OF INDIVIDUALS/TAXA	L	580.00	352.21	2276.46
NUMBER/ML OF MOST ABUNDANT TAXON	K	4021.00	2607.00	40040.00

LAKE NAME: LAKE MUNSON
STORET NUMBER: 1247

CONTINUED

TAXA	FORM	06 20 73 S	06 20 73 %C	06 20 73 ALGAL UNITS PER ML	08 30 73 S	08 30 73 %C	08 30 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
ACTINASTRUM HANTZSCHII	COL		3.7	684		0.3	41			X
ANABAENA #1	FIL				2	11.9	1426	1	38.2	40040
ANABAENA #2	FIL	5	4 [illegible]	855	1	21.8	2607		0.4	385
ANABAENA #3	FIL									X
ARTHROSPIRA MASSARTII	FIL									X
CARTERIA	CEL		3.7	684					0.1	128
CARTERIA ?	CEL						X			
CHLAMYDOMONAS	CEL			X		2.4	285	4	10.9	11422
CHRYSOCOCCUS	COL							3	11.9	12440
CLOSTERIUM	CEL			X						
COELASTRUM	COL					0.7	81			
COELASTRUM MICROPORUM	COL						X			X
COELASTRUM RETICULATUM	CCL		4.6	855						
CRUCIGENIA	COL		0.5	85						
CRYPTOMONAS	CEL	1	17.5	3251						
CYCLOTELLA	CEL									X
CYCLOTELLA MENEGHINIANA	CEL	3	15.2	2823				5	6.0	6288
DACTYLOCOCCOPSIS	CEL		0.5	85						
DACTYLOCOCCOPSIS ?	CEL									X
DICTYOSPHAERIUM	COL								0.1	128
DINOFLAGELLATE	CEL								1.7	1797
EUGLENA	CEL					0.3	41			
EUGLENA #1	CEL								0.9	898
EUGLENA #2	CEL			X					0.1	128
FLAGELLATE	CEL							2	20.5	21432
FLAGELLATE #1	CEL					1.7	204			
FLAGELLATES	CEL	2	21.7	4021						
GOLENKINIA	CEL					0.7	81			
GOLENKINIA RADIATA	CEL						X		0.1	128
GOMPHOSPHAERIA LACUSTRIS	COL									X
GONIUM PECTORALE	COL									X
KIRCHNERIELLA	CEL		6.0	1112						
LAGERHEIMIA	CEL					0.3	41			
LAGERHEIMIA CITRIFORMIS	CEL									X
LAGERHEIMIA LONGISETA V. MAJOR	CEL			X			X			
MELOSIRA	CEL			X						X
MERISMOPEDIA MARSSONII	COL				5	9.8	1059		0.1	128
MERISMOPEDIA MINIMA	COL		0.9	171						
MICRACTINIUM	COL					1.4	163			
MICRACTINIUM PUSILLUM	COL			X						X
MICROCYSTIS	COL	4	8.3	1540						
MICROCYSTIS AERUGINOSA	COL				3	13.3	1589			X
NEPHROCYTIUM	COL									X
NITZSCHIA	CEL		0.5	85						
NITZSCHIA PALEA	CEL			X						
OSCILLATORIA #1	FIL					1.0	122			
OSCILLATORIA LIMNETICA	FIL		1.4	257						
OSCILLATORIA PROTEUS ?	FIL		2.3	428		2.7	326			
OSCILLATORIA SUBBREVIS	FIL								0.4	385
PANDORINA MORUM	COL			X		2.4	285		2.3	2438
PEDIASTRUM DUPLEX V. RETICULATUM	COL					0.7	81			X
PENNATE DIATOM	CEL					0.7	81			
PHACUS	CEL									X
PHORMIDIUM MUCICOLA	COL					2.0	244			
PLATYDORINA CAUDATUM	COL		2.3	428					0.4	385
PLEODORINA	CCL									X
STEPHANODISCUS	CEL					0.7	81		0.1	128
RAPHIDIOPSIS	FIL				4	11.2	1344			
RAPHIDIOPSIS #1	FIL		0.5	85					0.9	898
SCENEDESMUS #1	COL								3.7	3850
SCENEDESMUS #2	COL					1.4	163			X
SCENEDESMUS #3	COL								0.1	128
SCENEDESMUS ABUNDANS	CCL					6.5	774			
SCENEDESMUS ACUMINATUS	COL								0.2	257
SCENEDESMUS DENTICULATUS	CEL		0.5	85		0.3	41			
SCENEDESMUS DIMORPHUS	COL									X
SCENEDESMUS GRANULATUS	COL					0.3	41			
SCENEDESMUS GRANULATUS F. DISCIFORMIS	COL					1.4	163			
SCENEDESMUS OPOLIENSIS	COL								0.4	385
SCENEDESMUS QUADRICAUDA	COL		1.4	257		3.4	407			
SCENEDESMUS SERRATUS	COL								0.1	128
SCHROEDERIA	CEL		2.3	428						
SCHROEDERIA SETIGERA ?	CEL			X						
SELENASTRUM BIBRAIANUM	COL					0.3	41			

LAKE NAME: LAKE MUNSON CONTINUED
STORET NUMBER: 1247

TAXA	FORM	06 20 73 S	06 20 73 %C	06 20 73 ALGAL UNITS PER ML	08 30 73 S	08 30 73 %C	08 30 73 ALGAL UNITS PER ML	11 05 73 S	11 05 73 %C	11 05 73 ALGAL UNITS PER ML
SURIRELLA	CEL								0.1	128
TETRAEDRON	CEL									X
TETRAEDRON #1	CEL					1.0	122			
TETRAEDRON GRACILE	CEL						X			
TETRAEDRON HASTATUM V. PALATINUM	CEL		0.5	85						
TETRAEDRON LIMNETICUM	CEL									X
TETRAEDRON LOBULATUM V. CRASSUM	CEL		0.5	85		0.3	41			
TETRAEDRON MUTICUM	CEL								0.2	257
TETRAEDRON TRIGONUM	CEL									X
TRACHELOMONAS URCEOLATA	CEL		0.9	171						
TOTAL				18560			11975			104717

LAKE NAME: LAKE SEMINOLE
STORET NUMBER: 1248

NYGAARD TROPHIC STATE INDICES

DATE	03 09 73	09 04 73	11 06 73
MYXOPHYCEAN	3.67 E	7.00 E	7.00 E
CHLOROPHYCEAN	5.33 E	12.5 E	16.5 E
EUGLENOPHYTE	0.11 ?	0.18 ?	0.11 ?
DIATOM	2.00 E	2.00 E	1.50 E
COMPOUND	12.0 E	26.0 E	27.5 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 09 73	09 04 73	11 06 73
GENUS	21	23	17
SPECIES	00	11	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 09 73	09 04 73	11 06 73
AVERAGE DIVERSITY	H	4.47	3.91	3.82
NUMBER OF TAXA	S	48.00	62.00	67.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	5.58	5.95	6.07
TOTAL DIVERSITY	D	161013.87	534399.25	587363.20
TOTAL NUMBER OF INDIVIDUALS/ML	N	36021.00	136675.00	153760.00
EVENESS COMPONENT	J	0.80	0.66	0.63
MEAN NUMBER OF INDIVIDUALS/TAXA	L	750.44	2204.44	2294.93
NUMBER/ML OF MOST ABUNDANT TAXON	K	7074.00	29250.00	28394.00

LAKE NAME: LAKE SEMINOLE
STORET NUMBER: 1248

CONTINUED

TAXA	FORM	03 09 73 S	03 09 73 %C	03 09 73 ALGAL UNITS PER ML	09 04 73 S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
ACTINASTRUM HANTZSCHII	COL						X			X
ANABAENA #1	FIL	3	2.7	974		1.7	2310		1.4	2166
ANABAENA #2	FIL		1.1	389		0.6	770		1.1	1684
ANABAENA #3	FIL						X			
ANABAENOPSIS	FIL									X
ANABAENOPSIS ELENKINII	FIL	2	3.4	1233		0.6	770			
ANABAENOPSIS RACIBORSKII	FIL		0.4	130						X
CARTERIA	CEL				5	5.2	8470	2	16.1	24784
CENTRIC DIATOM	CEL		0.2	65						
CENTRIC DIATOMS	CEL									X
CHLAMYDOMONAS	CEL					2.3	3080		1.1	1684
CHLOROGONIUM	COL						X		2.3	3609
CHROOCOCCUS	CEL		0.2	65		0.6	770			
CLOSTERIUM	COL					0.3	385			
COELASTRUM	COL								0.8	1203
COELASTRUM MICROPORUM	COL		0.2	65						
COELASTRUM RETICULATUM	CEL					0.3	385			
COSCINODISCUS	CEL						X			X
COSMARIUM #1	CEL									X
COSMARIUM #2	CEL		0.2	65						
COSMARIUM #3	COL					0.3	385		0.2	241
CRUCIGENIA	COL									X
CRUCIGENIA IRREGULARIS ?	COL		0.4	130						
CRUCIGENIA TETRAPEDIA	CEL					1.4	1925			
CRYPTOMONAS	CEL	4	2.7	973						
CRYPTOMONAS EROSA	COL		1.4	519						
CYANOPHYTAN COLONY	FIL						X			
CYANOPHYTAN FILAMENT #1	CEL						X			
CYCLOTELLA	CEL					1.1	3540			
CYCLOTELLA MENEGHINIANA	CEL				2	21.4	29230			
DACTYLOCOCCOPSIS	CEL								5.8	8903
DACTYLOCOCCOPSIS FASCICULARIS	COL					0.6	770			
DICHOTOMOCOCCUS	COL		0.7	260		0.3	385			
DICTYOSPHAERIUM PULCHELLUM	CEL								0.5	722
EUGLENA	CEL		0.4	130		1.4	1925			
EUGLENA #1	CEL						X			
EUGLENA #2	CEL	5	0.4	130						
EUGLENA #3	CEL		3.4	1233		3.1	4235	3	15.8	24300
FLAGELLATES	CEL					0.6	770			
FRAGILARIA	CEL									X
FRANCEIA	CEL		0.9	325		0.3	385		0.2	241
GOLENKINIA	CEL						X			X
GOLENKINIA RADIATA	COL									X
GONIUM ?	CEL									X
GYMNODINIUM	CEL					0.3	385		3.6	5534
KIRCHNERIELLA	CEL									X
LUNATE CELL	FIL								0.2	241
LYNGBYA #1	FIL								2.5	3850
LYNGBYA #2	FIL		3.1	1103		2.8	3850			
LYNGBYA CIRCUMCRETA	FIL									X
LYNGBYA CONTORTA ?	FIL		1.1	389	3	11.8	16170			
LYNGBYA LIMNETICA	CEL		0.2	65						
MALLOMONAS	CEL		2.9	1038						
MELOSIRA #4	CEL		3.4	1233						X
MELOSIRA DISTANS	CEL		0.4	130		0.6	770			
MELOSIRA GRANULATA	CEL		0.7	260			X			
MELOSIRA GRANULATA V. ANGUSTISSIMA	COL								0.3	481
MERISMOPEDIA #1	COL								0.8	1203
MERISMOPEDIA #2	COL					0.6	770			
MERISMOPEDIA MARSSONII	COL		1.4	519						
MERISMOPEDIA MINIMA	COL		0.2	65						
MERISMOPEDIA PUNCTATA	CEL		0.9	324						
MESOSTIGMA VIRIDIS	COL						X			
MICRACTINIUM	COL								1.9	2888
MICROCYSTIS	COL					1.4	1925			
MICROCYSTIS INCERTA	CEL		0.2	65						
NITZSCHIA	CEL					3.1	4235			
NITZSCHIA #1	CEL		3.6	1298						
NITZSCHIA HOLSATICA ?	CEL					3.4	4620			
NITZSCHIA PALEA ?	CEL		0.4	130						X
OOCYSTIS	CEL						X			
OOCYSTIS PARVA ?	FIL						X			
OSCILLATORIA	FIL							5	5.0	7700
OSCILLATORIA #1	FIL				1	19.4	26565	4	10.5	16122
OSCILLATORIA #2	FIL									
OSCILLATORIA LIMNETICA	FIL		9.4	3375						
OSCILLATORIA LIMNETICA ?	COL						X			
PANDORINA MORUM	COL					0.3	385			
PECIASTRUM BORYANUM										

LAKE NAME: LAKE SEMINOLE CONTINUED
STORET NUMBER: 1248

TAXA	FORM	03 09 73 %S	03 09 73 %C	03 09 73 ALGAL UNITS PER ML	09 04 73 %S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 %S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
PEDIASTRUM DUPLEX										
V. CLATHRATUM	COL									X
PEDIASTRUM SIMPLEX	COL						X			X
PEDIASTRUM SIMPLEX										
V. DUODENARIUM	COL									X
PEDIASTRUM TETRAS										
V. TETRAODON	COL						X			
PENNATE DIATOM	CEL							1	18.5	28394
PENNATE DIATOMS	CEL		1.1	389						
PHACUS #1	CEL					0.3	385			
PHACUS #2	CEL								0.2	241
PHACUS #3	CEL						X			
PHACUS PSEUDONORDSTEDTII	CEL		0.2	65						
PHACUS PSEUDONORDSTEDTII ?	CEL						X			
PHACUS PYRUM	CEL								0.2	241
STEPHANOSPHAERA ANGULOSA	CEL		3.6	1298						
RAPHIDIOPSIS	FIL				4	6.8	9240			
RAPHIDIOPSIS CURVATA	FIL		19.6	7074					2.0	3128
SCENEDESMUS #1	COL									X
SCENEDESMUS #2	COL								0.5	722
SCENEDESMUS #3	COL								3.6	5534
SCENEDESMUS #5	COL								0.9	1444
SCENEDESMUS #6	COL								0.2	241
SCENEDESMUS #8	COL								0.2	241
SCENEDESMUS ABUNDANS	COL		0.5	195		2.0	2695			
SCENEDESMUS ACUMINATUS	COL					0.3	385			
SCENEDESMUS BERNARDII	COL									X
SCENEDESMUS BICAUDATUS	COL		0.5	194						
SCENEDESMUS DIMORPHUS	COL		2.3	844					0.6	963
SCENEDESMUS PROTUBERANS	COL	1	4.5	1623						
SCENEDESMUS QUADRICAUDA	COL					1.4	1925			
SCENEDESMUS SPP.	COL		4.0	1428						
SCHROEDERIA SETIGERA	CEL		1.6	584			X		0.6	963
STAURASTRUM TETRACERUM ?	CEL		0.2	65						
STEPHANODISCUS	CEL									X
STEPHANODISCUS #1	CEL		10.3	3699						
SURIRELLA	CEL								0.5	722
TETRAEDRON	CEL									X
TETRAEDRON #1	CEL									X
TETRAEDRON #2	CEL								0.3	481
TETRAEDRON #3	CEL								0.2	241
TETRAEDRON CAUDATUM										
V. LONGISPINUM	CEL		0.2	65		0.6	770			
TETRAEDRON GRACILE	CEL									X
TETRAEDRON MINIMUM	CEL					0.6	770		0.2	241
TETRAEDRON MINIMUM										
V. SCROBICULATUM	CEL		4.0	1428						
TETRAEDRON MUTICUM	CEL		0.4	130		0.3	385			
TETRAEDRON REGULARE	CEL		0.2	65			X			
TETRAEDRON REGULARE										
V. GRANULATA	CEL									X
TETRAEDRON TRIGONUM										
V. GRACILE	CEL						X		0.2	241
TETRAEDRON TUMIDULUM	CEL		0.2	65			X		0.2	241
TETRASTRUM ELEGANS	COL					0.6	770			X
TETRASTRUM HETERACANTHUM	COL									X
TETRASTRUM SPP.	COL								0.9	1444
TETRASTRUM STAUROGENIAEFORME	COL		0.4	130		0.6	770			X
TRACHELOMONAS	CEL						X		0.3	481
TRACHELOMONAS #1	CEL									X
TRACHELOMONAS URCEOLATA										
V. OVATIS	CEL						X			
TREUBARIA	CEL					0.3	385			
TOTAL				36021			136675			153760

LAKE NAME: LAKE LAWNE
STORET NUMBER: 1249

NYGAARD TROPHIC STATE INDICES

DATE	09 03 73	11 07 73
MYXOPHYCEAN	0/0 C	0/0 O
CHLOROPHYCEAN	0/0 O	0/0 O
EUGLENOPHYTE	0/0 ?	02/0 E
DIATOM	0/01 ?	0/01 ?
COMPOUND	0/0 O	02/0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 03 73	11 07 73
GENUS	00	09
SPECIES	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 03 73	11 07 73
AVERAGE DIVERSITY	H	0.00	1.49
NUMBER OF TAXA	S	1.00	4.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	0.00	2.00
TOTAL DIVERSITY	D	0.00	1725.42
TOTAL NUMBER OF INDIVIDUALS/ML	N	0.00	1158.00
EVENESS COMPONENT	J	0.00	0.75
MEAN NUMBER OF INDIVIDUALS/TAXA	L	0.00	289.50
NUMBER/ML OF MOST ABUNDANT TAXON	K	0.01	713.00

LAKE NAME: LAKE LAWNE
STORET NUMBER: 1245

CONTINUED

TAXA	FORM	09 03 73 IS	09 03 73 %C	09 03 73 ALGAL UNITS PER ML	11 07 73 IS	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
EUGLENA ACUS	CEL				1	7.7	89
FLAGELLATE	CEL				11	61.5	713
PENNATE DIATOM	CEL			X			
PHACUS PYRUM	CEL				1	23.1	267
SYNEDRA	CEL				1	7.7	89
TOTAL				0			1158

LAKE NAME: LAKE TARPON
STORET NUMBER: 1250

NYGAARD TROPHIC STATE INDICES

DATE	03 09 73	09 04 73	11 06 73
MYXOPHYCEAN	02/0 E	2.00 E	0.50 E
CHLOROPHYCEAN	0/0 O	0/01 O	2.00 E
EUGLENOPHYTE	0/02 ?	0/02 ?	0/05 ?
DIATOM	1.00 E	02/0 E	1.00 E
COMPOUND	05/0 E	4.00 E	3.00 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 09 73	09 04 73	11 06 73
GENUS	00	06	05
SPECIES	00	00	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 09 73	09 04 73	11 06 73
AVERAGE DIVERSITY	H	1.97	1.92	1.14
NUMBER OF TAXA	S	14.00	11.00	14.00
NUMBER OF SAMPLES COMPOSITED	M	3.00	3.00	3.00
MAXIMUM DIVERSITY	MAXH	3.81	3.46	3.81
TOTAL DIVERSITY	D	971.21	8037.12	10145.42
TOTAL NUMBER OF INDIVIDUALS/ML	N	493.00	4186.00	8903.00
EVENESS COMPONENT	J	0.52	0.55	0.30
MEAN NUMBER OF INDIVIDUALS/TAXA	L	35.21	380.55	635.93
NUMBER/ML OF MOST ABUNDANT TAXON	K	210.00	2017.00	7315.00

LAKE NAME: LAKE TARPON
STORET NUMBER: 1250

CONTINUED

TAXA	FORM	03 09 73 S	03 09 73 %C	03 09 73 ALGAL UNITS PER ML	09 04 73 S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
ANABAENA	FIL									X
ANABAENA #1	FIL			X						
CENTRIC DIATOM	CEL	3	10.3	51						
CHLAMYDOMONAS	CEL							4	5.4	481
CLOSTERIUM	CEL				3	19.1	800	3	3.2	299
CRYPTOMONAS EROSA	CEL	1	42.6	210	1	48.2	2017	1	82.2	7315
CYCLOTELLA MENEGHINIANA	CEL						X			
DACTYLOCOCCOPSIS IRREGULARIS	CEL		1.4	7	5	3.5	146			
DINOBRYON WITHOUT LORICA	CEL	5	4.5	22						
DINOFLAGELLATE	CEL						X			
FLAGELLATE #1	CEL	2	35.3	174						
FLAGELLATE #2	CEL					1.1	46			
FLAGELLATE #4	CEL					1.1	46			
GYMNODINIUM ALBULUM	CEL		1.4	7						
MALLOMONAS ?	CEL						X			
MALLOMONAS ACAROIDES	CEL			X						
MELOSIRA	CEL									X
MELOSIRA GRANULATA	CEL						X			
MELOSIRA ITALICA	CEL	4	4.5	22						
NITZSCHIA	CEL			X						
OSCILLATORIA LIMNETICA	FIL				4	2.9	123			
PENNATE DIATOM	CEL								0.5	48
PERIDINIUM UMBONATUM	CEL			X				2	3.2	289
PTEROMONAS ANGULOSA	CEL								1.6	144
SCENEDESMUS #1	COL								0.5	48
SCENEDESMUS BICAUDATUS	COL									X
SCENEDESMUS DIMORPHUS	COL									X
SPERMATOZOOPSIS	CEL				2	24.1	1008	5	2.7	241
STAURASTRUM	CEL									X
STAURONEIS	CEL			X						
STEPHANODISCUS ASTRAEA	CEL			X						
SYNEDRA ULNA	CEL			X						
TETRAEDRON TRIGONUM	CEL								0.5	48
TOTAL				493			4186			8903

LAKE NAME: LAKE ELOISE
STORET NUMBER: 1252

NYGAARD TROPHIC STATE INDICES

DATE	03 08 73	09 06 73	11 06 73
MYXOPHYCEAN	6.50 E	17.0 E	14.0 E
CHLOROPHYCEAN	13.0 E	22.0 E	17.0 E
EUGLENOPHYTE	0.05 ?	0.03 ?	0/31 ?
DIATOM	1.00 E	0.33 E	0.33 E
COMPOUND	21.0 E	41.0 E	32.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 08 73	09 06 73	11 06 73
GENUS	21	10	17
SPECIES	07	04	04

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 08 73	09 06 73	11 06 73
AVERAGE DIVERSITY	H	3.53	4.28	4.48
NUMBER OF TAXA	S	50.00	49.00	40.00
NUMBER OF SAMPLES COMPOSITED	M	2.00	2.00	2.00
MAXIMUM DIVERSITY	MAXH	5.64	5.61	5.32
TOTAL DIVERSITY	D	117181.88	334118.20	219470.72
TOTAL NUMBER OF INDIVIDUALS/ML	N	33196.00	78065.00	48989.00
EVENESS COMPONENT	J	0.63	0.76	0.84
MEAN NUMBER OF INDIVIDUALS/TAXA	L	663.92	1593.16	1224.73
NUMBER/ML OF MOST ABUNDANT TAXON	K	12249.00	13741.00	5784.00

LAKE NAME: LAKE ELOISE
STORET NUMBER: 1252

CONTINUED

TAXA	FORM	03 08 73 S	03 08 73 %C	03 08 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
ANABAENA	FIL			X			X			X
ANABAENOPSIS	FIL					2.0	1540			
ANABAENOPSIS #1	FIL					1.3	1027			X
ANABAENOPSIS #2	FIL					1.1	856			
ANABAENOPSIS CIRCULARIS ?	CEL		2.0	659						
ANKISTRODESMUS	CEL								0.7	340
ANKISTRODESMUS FALCATUS	CEL		1.8	593						
APHANOCAPSA DELICATISSIMA	COL						X		4.2	2041
CENTRIC DIATOM	CEL		0.4	132		0.7	513	5	5.6	2722
CHLAMYDOMONAS	CEL		0.4	132			X		0.7	340
CHLOROGONIUM	CEL		0.4	132			X		0.7	340
CHROOCOCCUS	COL		2.4	790						
CHROOCOCCUS #1	COL					0.9	684	2	8.3	4083
CHROOCOCCUS #2	COL				2	8.5	6634		4.9	2382
COELASTRUM	COL								0.7	340
COELASTRUM #1	COL						X			
COELASTRUM CAMBRICUM	COL		0.2	66						
COELASTRUM CAMBRICUM V. INTERMEDIUM	COL			X						
COELASTRUM MICROPORUM	COL					0.4	342			
COELASTRUM RETICULATUM	COL					0.4	342			
COSMARIUM	CEL		0.6	198						
COSMARIUM #1	CEL						X		0.7	340
CRYPTOMONAS	CEL		0.6	198						
DACTYLOCOCCOPSIS	CEL				5	8.3	6502	3	11.8	5784
DACTYLOCOCCOPSIS IRREGULARIS	CEL	1	36.9	12249						
DICTYOSPHAERIUM PULCHELLUM	COL						X			X
DINOFLAGELLATE	CEL						X			
EUGLENA	CEL		0.2	66			X			
FLAGELLATE	CEL					0.7	513			
FLAGELLATE #1	CEL								1.4	680
FLAGELLATES	CEL								3.5	1701
FRAGILARIA	CEL					0.4	342			
GLENODINIUM GYMNODINIUM	CEL			X						
GLOEOTHECE	COL					0.2	171			
GOLENKINIA PAUCISPINA	CEL		0.4	132		3.3	2567			
GOLENKINIA RADIATA	CEL		3.4	1120		4.6	3593		4.9	2382
KIRCHNERIELLA	CEL		3.0	988		2.0	1540		0.7	340
LAGERHEIMIA CITRIFORMIS	CEL		0.2	66						
LAGERHEIMIA SUBSALSA	CEL						X			
LYNGBYA LAGERHEIMII	FIL				1	17.6	13741		1.4	680
LYNGBYA LIMNETICA	FIL	2	15.7	5203	3	8.8	6871		3.5	1701
MERISMOPEDIA MINIMA	COL					3.9	3080			
MERISMOPEDIA PUNCTATA	COL		0.6	198		2.0	1540		3.5	1701
MERISMOPEDIA TENUISSIMA	COL		0.8	263					4.2	2041
MICRACTINIUM PUSILLUM	COL								0.7	340
MICROCYSTIS	COL			X						
MICROCYSTIS AERUGINOSA	COL								2.8	1361
MICROCYSTIS INCERTA	COL	4	4.4	1449		3.7	2909		3.5	1701
OOCYSTIS	CEL		1.6	527			X			X
OSCILLATORIA	FIL					3.9	3080			
OSCILLATORIA #1	FIL		0.2	66						
OSCILLATORIA LIMNETICA	FIL	3	7.7	2568				1	9.0	4423
PEDIASTRUM SIMPLEX	COL			X		0.2	171			
PENNATE DIATOM	CEL		0.4	132						X
PENNATE DIATOM #1	CEL					3.5	2738		3.5	1701
PENNATE DIATOM #2	CEL					2.9	2224			X
PHACUS MEGALOPSIS	CEL			X						
PHORMIDIUM MUCICOLA	COL			X						
PTEROMONAS ANGULOSA	CEL			X						
RAPHIDIOPSIS	FIL				4	7.2	5647			
RAPHIDIOPSIS ? MEDITERRANEA	FIL						X		2.8	1361
RAPHIDIOPSIS CURVATA	FIL		2.8	922						
SCENEDESMUS	COL			X						
SCENEDESMUS #1	COL								0.7	340
SCENEDESMUS #4	COL						X			X
SCENEDESMUS ABUNDANS	COL						X		1.4	680
SCENEDESMUS ACUMINATUS	COL		0.2	66		1.1	856		0.7	340
SCENEDESMUS ACUMINATUS V. ELONGATUS	COL			X						
SCENEDESMUS BICAUDATUS	COL		1.8	593						
SCENEDESMUS DENTICULATUS	COL		0.2	66						
SCENEDESMUS DIMORPHUS	COL		4.0	329						
SCENEDESMUS OPOLIENSIS	COL	5	3.6	1185		1.5	1198		1.4	680
SCENEDESMUS PERFORATUS	COL			X						
SCENEDESMUS PROTUBERANS	COL		1.6	527		1.1	856			X
SCENEDESMUS QUADRICAUDA	COL		2.0	659		4.9	3766		4.9	2382

LAKE NAME: LAKE ELOISE
STORET NUMBER: 1252

CONTINUED

TAXA	FORM	03 08 73 S	03 08 73 %C	03 08 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
SCHROEDERIA SETIGERA	CEL		1.4	461		0.4	342			
STAURASTRUM	CEL			X						
TETRADESMUS WISCONSINENSE	COL						X			X
TETRAEDRON #1	CEL		0.2	66		0.4	342			
TETRAEDRON CAUDATUM V. LONGISPINUM	CEL		0.2	66						
TETRAEDRON MINIMUM	CEL		0.8	263		1.1	856	4	6.3	3062
TETRAEDRON MUTICUM	CEL			X		0.9	694		1.4	680
TETRASTRUM GLABRUM	COL			X						
TETRASTRUM STAUROGENIAEFORME	COL						X			
TREUBARIA	CEL		0.2	66						
TOTAL				33196			79065			48989

LAKE NAME: LAKE JESSIE
STORET NUMBER: 1258

NYGAARD TROPHIC STATE INDICES

DATE	09 04 73	11 06 73
MYXOPHYCEAN	3.67 E	2.40 E
CHLOROPHYCEAN	9.67 E	4.40 E
EUGLENOPHYTE	0.02 ?	0.06 ?
DIATOM	1.00 E	2.00 E
COMPOUND	14.6 E	7.60 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	09 04 73	11 06 73
GENUS	15	16
SPECIES	04	00

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		09 04 73	11 06 73
AVERAGE DIVERSITY	H	4.54	4.09
NUMBER OF TAXA	S	57.00	51.00
NUMBER OF SAMPLES COMPOSITED	M	1.00	1.00
MAXIMUM DIVERSITY	MAXH	5.83	5.67
TOTAL DIVERSITY	D	100061.60	178749.35
TOTAL NUMBER OF INDIVIDUALS/ML	N	22040.00	43704.00
EVENESS COMPONENT	J	0.78	0.72
MEAN NUMBER OF INDIVIDUALS/TAXA	L	386.67	855.94
NUMBER/ML OF MOST ABUNDANT TAXON	K	2406.00	9121.00

LAKE NAME: LAKE JESSIE
STORET NUMBER: 1258

CONTINUED

TAXA	FORM	09 04 73 %S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 %S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
ANABAENA #1	FIL		2.2	481		1.1	474
ANABAENA #2	FIL		0.4	96		0.3	118
ANABAENOPSIS	FIL					0.8	355
ANABAENOPSIS RACIBORSKII	FIL		2.2	481			X
CENTRIC DIATOM	CEL		1.7	385			
CENTRIC DIATOMS	CEL				4	7.6	3317
CERATIUM HIRUNDINELLA	CEL			X			
CHLAMYDOMONAS	CEL			X			
CHLOROGONIUM	CEL		1.3	289			X
CHROOCOCCUS	COL		3.5	770		3.5	1540
COELASTRUM	COL						X
COELASTRUM MICROPORUM	COL						X
COELASTRUM RETICULATUM ?	COL		0.9	193			
COELASTRUM SPHAERICUM	COL		0.4	96			
COSMARIUM	CEL		0.9	193			
COSMARIUM #1	CEL					0.5	236
COSMARIUM #2	CEL					2.2	948
CRUCIGENIA	COL						X
CRUCIGENIA CRUCIFERA	COL		0.9	193			
CRUCIGENIA TETRAPEDIA	COL		0.4	96		1.9	829
CRYPTOMONAS ?	CEL	1	10.9	2406			
CYCLOTELLA	CEL	4	7.0	1540			
DACTYLOCOCCOPSIS	CEL		7.4	1636		6.5	2843
DACTYLOCOCCOPSIS FASCICULARIS ?	CEL						X
DICTYOSPHAERIUM	CCL					1.6	711
DICTYOSPHAERIUM PULCHELLUM	COL		4.4	963			
DINOBRYON BAVARICUM	CEL						X
DINOBRYON CALCIFORMIS	CEL						X
DINOFLAGELLATE	CEL		0.4	96			
DINOFLAGELLATE #1	CEL					1.6	711
DINOFLAGELLATE #2	CEL		0.4	96		1.9	00828
EUASTRUM	CEL					0.3	118
EUASTRUM DENTICULATUM	CEL						X
EUGLENA	CEL			X		0.8	355
FLAGELLATES	CEL	3	10.9	2406	1	20.9	9121
GOLENKINIA	CEL		1.3	289			
GOLENKINIA RADIATA	CEL					1.4	592
KIRCHNERIELLA	CEL		2.2	481		1.9	829
KIRCHNERIELLA LUNARIS V. DIANAE	CEL			X			
LYNGBYA CIRCUMCRETA	FIL					0.8	355
LYNGBYA LIMNETICA	FIL		1.7	385			
MELOSIRA	CEL		0.4	96		2.7	1185
MERISMOPEDIA TENUISSIMA	COL		0.4	96		0.8	355
MICROCYSTIS INCERTA	COL	5	5.7	1251	2	10.0	4383
NITZSCHIA	CEL		4.4	963			
OOCYSTIS PUSILLA	CEL			X			
OSCILLATORIA #1	FIL		2.6	578			
OSCILLATORIA LIMNETICA	FIL	2	10.9	2406	5	5.4	2369
PANDORINA	COL						X
PEDIASTRUM SIMPLEX	COL			X			
PEDIASTRUM TETRAS V. TETRAODON	COL			X		0.3	118
PENNATE DIATOM	CEL			X			
PENNATE DIATOMS	CEL				3	12.7	5568
POLYEDRIOPSIS	CEL					0.3	118
RAPHIDIOPSIS	FIL		0.9	193			X
SCENEDESMUS	COL					0.8	355
SCENEDESMUS #1	COL		1.3	289		1.6	711
SCENEDESMUS #2	COL					1.9	829
SCENEDESMUS #3	COL					0.3	118
SCENEDESMUS ABUNDANS	COL		3.5	770			
SCENEDESMUS ACUMINATUS	COL		0.4	96			
SCENEDESMUS ACUMINATUS V. BERNARDII	COL		0.4	96			
SCENEDESMUS ARCUATUS	COL		0.4	96			
SCENEDESMUS BIJUGA	COL					1.4	592
SCENEDESMUS DIMORPHUS	COL					0.3	118
SCENEDESMUS DISPAR	COL		0.4	96			
SCENEDESMUS GRANULATUS F. DISCIFORMIS	COL		0.4	96			
SCENEDESMUS PRODUCTO-CAPITATUS	COL			X			
SCENEDESMUS PROTUBERANS F. DANUBIANUS ?	COL			X			
SCENEDESMUS QUADRICAUDA	COL		0.9	193			
SCHROEDERIA SETIGERA	CEL			X		0.5	236
STAURASTRUM	CEL						X
STAURASTRUM #1	CEL		0.4	96			
STAURASTRUM #2	CEL			X			
SYNEDRA RADIANS	CEL			X			

LAKE NAME: LAKE JESSIE CONTINUED
STORET NUMBER: 1258

TAXA	FORM	09 04 73 S	09 04 73 %C	09 04 73 ALGAL UNITS PER ML	11 06 73 S	11 06 73 %C	11 06 73 ALGAL UNITS PER ML
TETRAEDRON	CEL						X
TETRAEDRON #1	CEL		0.4	96			
TETRAEDRON MINIMUM	CEL					5.2	2251
TETRAEDRON MINIMUM V. SCROBICULATUM	CEL		2.2	481			
TETRAEDRON MUTICUM	CEL			X			
TETRAEDRON TRIGONUM	CEL			X			
TETRAEDRON TRIGONUM ?	CEL						X
TETRAEDRON TRIGONUM V. GRACILE	CEL		0.4	96			X
TETRASTRUM HETERACANTHUM	COL		1.7	385			
TETRASTRUM STAUROGENIAEFORME	COL					0.3	118
TRACHELOMONAS	CEL						X
TREUBARIA	CEL			X			X
TOTAL				22040			43704

LAKE NAME: E. LAKE TOHOPEKALIGA
STORET NUMBER: 1261

NYGAARD TROPHIC STATE INDICES

DATE	03 13 73	09 06 73	11 07 73
MYXOPHYCEAN	05/0 E	6.00 E	4.00 E
CHLOROPHYCEAN	04/0 E	10.0 E	7.50 E
EUGLENOPHYTE	0/09 ?	0.25 E	0.04 ?
DIATOM	3.00 E	0.83 E	0.80 E
COMPOUND	12/0 E	25.0 E	14.0 E

PALMER'S ORGANIC POLLUTION INDICES

DATE	03 13 73	09 06 73	11 07 73
GENUS	08	13	07
SPECIES	00	04	04

SPECIES DIVERSITY AND ABUNDANCE INDICES

DATE		03 13 73	09 06 73	11 07 73
AVERAGE DIVERSITY	H	3.31	3.71	3.97
NUMBER OF TAXA	S	20.00	37.00	43.00
NUMBER OF SAMPLES COMPOSITED	M	4.00	4.00	4.00
MAXIMUM DIVERSITY	MAXH	4.32	5.21	5.43
TOTAL DIVERSITY	D	2830.05	28348.11	26039.23
TOTAL NUMBER OF INDIVIDUALS/ML	N	855.00	7641.00	6559.00
EVENESS COMPONENT	J	0.77	0.71	0.73
MEAN NUMBER OF INDIVIDUALS/TAXA	L	42.75	206.51	152.53
NUMBER/ML OF MOST ABUNDANT TAXON	K	190.00	1671.00	1079.00

LAKE NAME: E. LAKE TOHOPEKALIGA CONTINUED
STORET NUMBER: 1261

YAXA	FORM	03 13 73 S	03 13 73 %C	03 13 73 ALGAL UNITS PER ML	09 06 73 S	09 06 73 %C	09 06 73 ALGAL UNITS PER ML	11 07 73 S	11 07 73 %C	11 07 73 ALGAL UNITS PER ML
ANABAENA #1	FIL		0.8	7					0.6	39
ANABAENA #2	FIL			X					0.6	39
ANKISTRODESMUS ?	CEL	4	8.8	75						
APHANIZOMENON FLOS-AQUAE	FIL	1	19.8	169			X			
APHANOCAPSA	COL								1.8	116
ASTERIONELLA FORMOSA	CEL			X						
CHLAMYDOMONAS	CEL					0.8	60			
CHLOROGONIUM	CEL						X			
CHROCOCCUS	COL				4	5.2	477			
CHROCOCCUS DISPERSUS	COL									X
CHROMONAS	CEL									X
CLOSTERIUM	CEL									X
COELASTRUM MICROPORUM	COL					0.8	60			
COELASTRUM RETICULATUM	COL					0.8	60			
CRUCIGENIA CRUCIFERA	COL									X
CRYPTOMONAS EROSA	CEL		4.0	34						
CYCLOTELLA	CEL					3.9	298	3	11.4	745
DACTYLOCOCCOPSIS	CEL				3	18.0	1373		5.3	347
DICTYOSPHAERIUM PULCHELLUM	COL								0.6	39
DINOBRYON DIVERGENS	CEL			X						
EUASTRUM	CEL								0.6	39
EUGLENA	CEL						X			
EUGLENA ACUS	CEL									X
FLAGELLATE #1	CEL	2	22.2	190						X
FLAGELLATES	CEL				2	12.5	955	1	16.5	1079
FRAGILARIA BREVISTRIATA	CEL					0.8	60			
GLENODINIUM GYMNODINIUM V. BISCUTELLIFORME	CEL		0.8	7						
GOLENKINIA RADIATA	CEL		1.6	14		3.1	239			X
KIRCHNERIELLA	CEL						X			
LYNGBYA	FIL							4	10.6	694
LYNGBYA LIMNETICA	FIL				1	21.9	1671			
MALLOMONAS ACAROIDES	CEL		2.3	20						
MELOSIRA	CEL						X			
MELOSIRA #2	CEL					1.6	119			
MELOSIRA DISTANS	CEL		9.5	81			X	5	7.1	463
MELOSIRA GRANULATA	CEL			X				2	12.9	848
MERISMOPEDIA MINIMA	COL				5	7.0	537			
MERISMOPEDIA TENUISSIMA	COL		4.0	34					4.1	270
MICRACTINIUM	COL									X
MICROCYSTIS INCERTA	COL					3.1	239		4.1	270
NAVICULA	CEL						X			
OPHIOCYTIUM CAPITATUM	CEL									X
OPHIOCYTIUM CAPITATUM V. LONGISPINUM	CEL									
OSCILLATORIA	FIL	3	14.3	122					1.8	116
PANDORINA	COL									X
PEDIASTRUM DUPLEX V. GRACILIMUM	COL									X
PEDIASTRUM TETRAS V. TETRAODON	COL						X			
PENNATE DIATOM #1	CEL					3.9	298		5.3	347
PENNATE DIATOM #2	CEL								2.3	154
PENNATE DIATOM #3	CEL								1.8	116
PERIDINIUM INCONSPICUUM	CEL								1.2	77
PERIDINIUM INCONSPICUUM V. CONTACTUM F. ARMATUM	CEL		4.0	34						
PERIDINIUM WISCONSINENSE	CEL	5	2.3	20		0.8	60			
PHACUS	CEL						X			
PINNULARIA ABAUJENSIS	CEL						X			
RHIZOSOLENIA	CEL					4.7	358		0.6	39
RHIZOSOLENIA LONGISETA	CEL		3.2	27						
SCENEDESMUS #1	COL								3.9	257
SCENEDESMUS ABUNDANS	COL									X
SCENEDESMUS ACUMINATUS	COL								0.6	39
SCENEDESMUS GRANULATUS F. DISCIFORMIS	COL									
SCENEDESMUS QUADRICAUDA	COL		1.6	14		2.3	179		0.6	39
SCHROEDERIA	CEL					0.8	60		1.8	116
SPERMATOZOOPSIS	CEL					1.6	119			
SPONDYLOSIUM	CEL					1.6	119			
SURIRELLA	CEL									X
SYNEDRA #1	CEL						X		0.6	39
SYNEDRA #2	CEL					0.8	60			
TETRAEDRON	CEL					0.8	60			
TETRAEDRON #1	CEL									
TETRAEDRON CAUDATUM	CEL		0.8	7					0.6	39
TETRAEDRON MINIMUM	CEL									
TETRAEDRON MUTICUM	CEL								2.3	154
TETRAEDRON TRIGONUM	CEL									X
TETRASTRUM HETERACANTHUM	COL									X
TRACHELOMONAS	CEL					0.8	60		0.6	39
TRACHELOMONAS SIMILIS	CEL					0.8	60			
TREUBARIA	CEL						X			
	CEL					0.8	60			
TOTAL				855			7641			6559

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